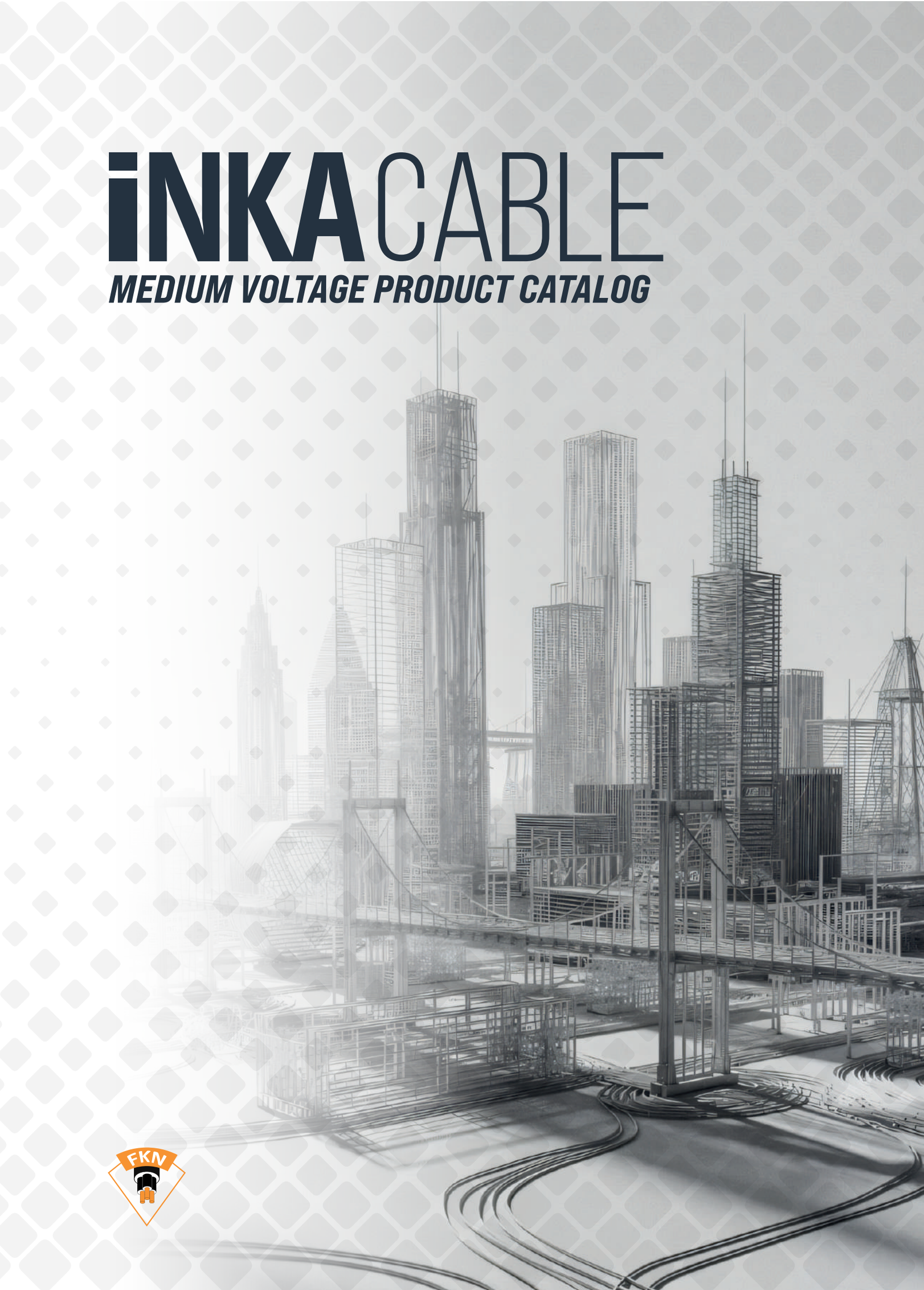
iNKA CABLE

MEDIUM VOLTAGE PRODUCT CATALOG




iNKACABLE

COMPANY PROFILE

INTEKAR GLOBAL Corporation was established in 2020 with the purpose of producing power cables, aiming to meet the needs of both domestic and international markets with high-quality products.
INTEKAR GLOBAL Corporation - Product Portfolio:

- 300/300 Volt Installation Cables
- 300/500 Volt Installation Cables
- 450/750 Volt Installation Cables
- 600/1000 Volt Copper and Aluminum Low Voltage Power Cables
- 0.6/1 kV AC & 1.8 kV DC Solar Energy Cables
- HFFRLS 0.6/1 kV Copper and Aluminum Low Voltage Power Cables
- 1.8/3 kV Copper and Aluminum Low Voltage Power Cables
- 6/10 kV, 12/20 kV, 18/30 kV and 20.3/35 kV Copper and Aluminum Medium Voltage Power Cables
- 600/1000 Volt Copper and Aluminum Overhead Line (ABC & NFA2X) Power Cables
- Bare or Insulated Overhead Copper and Aluminum Power Cables and Conductors
- Bare and Braided Overhead Line Copper and Aluminum Conductors
- PVC Granules for Plumbing and Power Cables
- Wooden Reels for Plumbing and Power Cables

With integrated facilities covering a total area of 170.000 m^2, including 45.000 m^2 of covered space, the company manufactures energy cables, overhead line conductors, granules, and wooden spools. Production is carried out by highly skilled personnel with extensive expertise in their respective fields, utilizing modern manufacturing technologies and complying with TSE, VDE, IEC standards, as well as other customer-specific requirements.

INTEKAR GLOBAL Corporation operates with a team of qualified experts whose knowledge and experience ensure full compliance with the requirements of the TS EN ISO 9001 Quality Management System, TS EN ISO 14001 Environmental Management System, and TS EN ISO 45001 Occupational Health and Safety Management System.

In our company's laboratories, cables manufactured in accordance with the above-mentioned standards are inspected and tested using modern inspection and testing equipment.

INTEKAR GLOBAL Corporation will continue to offer quality products to its customers by constantly and closely following the developing technology, in close cooperation with the customers, to meet evolving demands.

iNTEKAR GLOBAL Corporation

FKN

INTEGRATED MANAGEMENT SYSTEM POLICY

"To provide products and services that maximize value for our customers We aim to be a leading organization in our sector by prioritizing product quality, supporting a productive work environment for our employees, and embracing the latest technological advancements." has been determined as our quality policy.

"Committed to continuously developing processes in compliance with legal requirements, conserving natural resources, optimizing the use of raw materials and energy, and promoting recycling and reuse. We strive to create a more sustainable environment for future generations while educating and raising awareness among our employees about environmental responsibility." has been determined as our Environmental Policy.

"By minimizing risks that may threaten the health and safety of our employees, we are committed to continuous development and learning to ensure safe working conditions and to prevent work-related accidents and occupational diseases."

Our Occupational Health and Safety (OHS) Policy is defined as follows:

"Our main policy is to prioritize environmental care and the well-being of our workers, ensure occupational health and safety, enhance customer satisfaction, comply with all applicable legal requirements, and pursue continuous development and improvement."

iNKACABLE

iNTEKAR GLOBAL Corporation

FKN

ISO 9001 : 2015

PERFECTION COMMITMENT PCMS

Registration Certificate

This is to certify that The Management Systems of

INTEKAR GLOBAL CORPORATION DOO

Carried out at following site:

Industriska zona, Dubrovo, Negotino 1440, North Macedonia

Has been found to conform to the Quality Management System Standard:

ISO 9001:2015

This certificate is valid for the following Product or Service ranges:

Production and sales of copper and aluminium wires and cables (300/300 Volt Installation Cables, 300/500 Volt Installation Cables, 450/750 Volt Installation Cables, 600/1000 Volt Copper and Aluminium Low Voltage Energy Cables, 1.8/3 kV Copper and Aluminium Low Voltage Energy Cables, 0.6/1 kV AC & 1.8 kV DC Solar Cables, HFFRLS 0.6/1 kV Copper and Aluminium Low Voltage Energy Cables, 6/10 kV, 12/20 kV, 18/30 kV and 20.3/35 kV Copper and Aluminium Medium Voltage Energy Cables, 600/1000 Volt Copper and Aluminium Aerial Line (ABC & NFA2X) Power Cables, Bare or Insulated Aerial Line Copper and Aluminium Energy Cables and Conductors, Bare and Braided Overhead Line Copper and Aluminium Conductors, PVC Granules for Plumbing and Energy Cables, Wooden Spools for Plumbing and Energy Cables) PVC granule production

Certificate no.	:	EUAC/QMS/1017-2025
Issued on	:	11/02/2025
Validity Date	:	10/02/2028
1st Surveillance Due On	:	DONE
2ND Surveillance Due On	:	11/02/2027

THE VALIDITY OF CERTIFICATE IS SUBJECT TO REGULAR SURVEILLANCE AUDIT ON OR ABOVE MENTIONED DATES AND IT'S ONLY VALID AFTER SUCCESSFUL SURVEILLANCE WITH CONTINUATION LETTER ISSUED BY PCMS.

AUTHORISED BY
CHAIRMAN/DIRECTOR

TO VERIFY THIS CERTIFICATE STATUS PLEASE VISIT ACCREDITATION BOARD WEBSITE https://europeanaccreditationservices.com/

EAS Acc No.- EUAC110

MEMBER GLOBAL GCF CONFORMITY FORUM

ISO 9001:2015 CERTIFIED COMPANY

PCMS WORLDWIDE LTD
Address : Kemp House, 160 City Road,
London, EC1V2NX, United Kingdom
www.pcmsworld.com

The Certificate Remains The Property Of PCMS As Per Certificate Audit Contract

iNKACABLE

ISO 14001 : 2015

PERFECTION COMMITMENT PCMS

Registration Certificate

This is to certify that The Management Systems of

INTEKAR GLOBAL CORPORATION DOO

Carried out at following site:

Industriska zona, Dubrovo, Negotino 1440, North Macedonia

Has been found to conform to the Environmental Management Systems Standard:

ISO 14001:2015

This certificate is valid for the following Product or Service ranges:

Production and sales of copper and aluminium wires and cables (300/300 Volt Installation Cables, 300/500 Volt Installation Cables, 450/750 Volt Installation Cables, 600/1000 Volt Copper and Aluminium Low Voltage Energy Cables, 1.8/3 kV Copper and Aluminium Low Voltage Energy Cables, 0.6/1 kV AC & 1.8 kV DC Solar Cables, HFFRLS 0.6/1 kV Copper and Aluminium Low Voltage Energy Cables, 6/10 kV, 12/20 kV, 18/30 kV and 20.3/35 kV Copper and Aluminium Medium Voltage Energy Cables, 600/1000 Volt Copper and Aluminium Aerial Line (ABC & NFA2X) Power Cables, Bare or Insulated Aerial Line Copper and Aluminium Energy Cables and Conductors, Bare and Braided Overhead Line Copper and Aluminium Conductors, PVC Granules for Plumbing and Energy Cables, Wooden Spools for Plumbing and Energy Cables) PVC granule production

Certificate no.	:	EUAC/EMS/1004-2025
Issued on	:	11/02/2025
Validity Date	:	10/02/2028
1st Surveillance Due On	:	DONE
2ND Surveillance Due On	:	11/02/2027

THE VALIDITY OF CERTIFICATE IS SUBJECT TO REGULAR SURVEILLANCE AUDIT ON OR ABOVE MENTIONED DATES AND IT'S ONLY VALID AFTER SUCCESSFUL SURVEILLANCE WITH CONTINUATION LETTER ISSUED BY PCMS.

AUTHORISED BY
CHAIRMAN/DIRECTOR

TO VERIFY THIS CERTIFICATE STATUS PLEASE VISIT ACCREDITATION BOARD WEBSITE https://europeanaccreditationservices.com/

EAS Acc No.- EUAC110

MEMBER GLOBAL GCF CONFORMITY FORUM

ISO 14001 : 2015 CERTIFIED COMPANY

PCMS WORLDWIDE LTD
Address : Kemp House, 160 City Road,
London, EC1V2NX, United Kingdom
www.pcmsworld.com

The Certificate Remains The Property Of PCMS As Per Certificate Audit Contract

ISO 45001 : 2018

PERFECTION COMMITMENT PCMS

Registration Certificate

This is to certify that The Management Systems of

INTEKAR GLOBAL CORPORATION DOO

Carried out at following site:

Industriska zona, Dubrovo, Negotino 1440, North Macedonia

Has been found to conform to the Occupational Health And Safety Management Systems Standard:

ISO 45001:2018

This certificate is valid for the following Product or Service ranges:

Production and sales of copper and aluminium wires and cables (300/300 Volt Installation Cables, 300/500 Volt Installation Cables, 450/750 Volt Installation Cables, 600/1000 Volt Copper and Aluminium Low Voltage Energy Cables, 1.8/3 kV Copper and Aluminium Low Voltage Energy Cables, 0.6/1 kV AC & 1.8 kV DC Solar Cables, HFFRLS 0.6/1 kV Copper and Aluminium Low Voltage Energy Cables, 6/10 kV, 12/20 kV, 18/30 kV and 20.3/35 kV Copper and Aluminium Medium Voltage Energy Cables, 600/1000 Volt Copper and Aluminium Aerial Line (ABC & NFA2X) Power Cables, Bare or Insulated Aerial Line Copper and Aluminium Energy Cables and Conductors, Bare and Braided Overhead Line Copper and Aluminium Conductors, PVC Granules for Plumbing and Energy Cables, Wooden Spools for Plumbing and Energy Cables) PVC granule production

Certificate no.	:	EUAC/OHS&S/1002-2025
Issued on	:	11/02/2025
Validity Date	:	10/02/2028
1st Surveillance Due On	:	DONE
2ND Surveillance Due On	:	11/02/2027

THE VALIDITY OF CERTIFICATE IS SUBJECT TO REGULAR SURVEILLANCE AUDIT ON OR ABOVE MENTIONED DATES AND IT'S ONLY VALID AFTER SUCCESSFUL SURVEILLANCE WITH CONTINUATION LETTER ISSUED BY PCMS.

AUTHORISED BY
CHAIRMAN/DIRECTOR

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EAS Acc No.- EUAC110

MEMBER GLOBAL GCF CONFORMITY FORUM

ISO 45001 : 2018 CERTIFIED COMPANY

PCMS WORLDWIDE LTD
Address : Kemp House, 160 City Road,
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www.pcmsworld.com

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iNKACABLE

TÜRK STANDARDLARI ENSTİTÜSÜ

TÜRK STANDARDLARINA UYGUNLUK BELGESİ

TURKISH STANDARDS INSTITUTION

CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Tanımı — Description of the Mark

TSE veya/or  veya/or TSE

BELGE NUMARASI *REFERENCE NUMBER OF LICENCE*	0386185-TSE-01/02
BELGENİN İLK VERİLİŞ TARİHİ *DATE OF FIRST ISSUE OF LICENCE*	06.07.2023
BELGENİN SON GEÇERLİLİK TARİHİ *LICENCE VALID UNTIL*	12.03.2027
BELGE SAHİBİ KURULUŞUN ADI *NAME OF THE LICENCE HOLDER*	İNTEKAR GLOBAL CORPARATION
BELGE SAHİBİ KURULUŞUN ADRESİ *ADRESS OF THE LICENCE HOLDER*	INDUSTRY ZONE, DUBROVO NEGOTİNO 1440 , NORTH MACEDONİA GOSTİVAR/MAKEDONYA
ÜRETİM YERİ ADI *NAME OF THE MANUFACTURING PLACE*	038976958312
ÜRETİM YERİ ADRESİ *ADRESS OF THE MANUFACTURING PLACE*	INDUSTRY ZONE, DUBROVO NEGOTİNO 1440 , NORTH MACEDONİA NEGOTİNO / MAKEDONYA
İPTAL EDİLEN BELGE NUMARASI (Varsa) *INDICATION OF SUPERSEDED LICENCE (if any)*	0386185-TSE-01/01
TESCİLLİ TİCARİ MARKASI *REGISTERED TRADE MARK*	İNKA CABLE
İLGİLİ TÜRK STANDARDI *RELATED TURKISH STANDARD*	TS IEC 60502-1 / 12.04.2021

TÜRKAK
Ürün
TS EN ISO/IEC 17065
AB-0105-U

BELGE KAPSAMI
SCOPE OF LICENCE

- YVV, BEYAN GERİLİMİ 0.6/1 KV OLAN, PVC YALITIMLI VE KILIFLI GÜÇ KABLOLARI.
- YAVV, BEYAN GERİLİMİ 0.6/1 KV OLAN, ALÜMİNYUM İLETKENLİ, PVC YALITIMLI VE KILIFLI GÜÇ KABLOLARI.
- YAXV, BEYAN GERİLİMİ 0.6/1 KV OLAN, ALÜMİNYUM İLETKENLİ,XLPE YALITIMLI VE PVC KILIFLI GÜÇ KABLOLARI.

e-imzalı/e-signed

09.03.2026

Belgelendirme Merkezi Başkanı Adına
SOYDAN CERAN

ELEKTROTEKNİK SEKTÖRÜ MÜDÜRÜ

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.
*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kazıntı ve silinti yapılamaz.
*TSE ELEKTROTEKNİK SEKTÖRÜ MÜDÜRLÜĞÜ * Adres: Necatibey Cad.No:112 06100 Bakanlıklar/ANKARA * Telefon: 0312 416 63 96* Faks: 0312-416 66 17
*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr

https://evrakkontrol.tse.org.tr/BelgeDogrulama.aspx?p=hgn27q8g adresinden belgenin doğruluğunu ve geçerliliğini sorgulayınız.

TÜRK STANDARDLARI ENSTİTÜSÜ

TÜRK STANDARDLARINA UYGUNLUK BELGESİ

TURKISH STANDARDS INSTITUTION

CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Tanımı — Description of the Mark

TSE veya/or  veya/or

BELGE NUMARASI *REFERENCE NUMBER OF LICENCE*	0386185-TSE-02/01
BELGENİN İLK VERİLİŞ TARİHİ *DATE OF FIRST ISSUE OF LICENCE*	06.07.2023
BELGENİN SON GEÇERLİLİK TARİHİ *LICENCE VALID UNTIL*	06.07.2026
BELGE SAHİBİ KURULUŞUN ADI *NAME OF THE LICENCE HOLDER*	İNTEKAR GLOBAL CORPARATION
BELGE SAHİBİ KURULUŞUN ADRESİ *ADRESS OF THE LICENCE HOLDER*	INDUSTRY ZONE, DUBROVO NEGOTİNO 1440 , NORTH MACEDONİA GOSTİVAR/MAKEDONYA
ÜRETİM YERİ ADI *NAME OF THE MANUFACTURING PLACE*	038976958312
ÜRETİM YERİ ADRESİ *ADRESS OF THE MANUFACTURING PLACE*	INDUSTRY ZONE, DUBROVO NEGOTİNO 1440 , NORTH MACEDONİA NEGOTİNO / MAKEDONYA
İPTAL EDİLEN BELGE NUMARASI (Varsa) *İNDICATION OF SUPERSEDED LICENCE (if any)*	
TESCİLLİ TİCARİ MARKASI *REGISTERED TRADE MARK*	2022/605
İLGİLİ TÜRK STANDARDI *RELATED TURKISH STANDARD*	TS IEC 60502-2 / 02.04.2015

TÜRKAK
Ürün
TS EN ISO/IEC 17065
AB-0105-U

BELGE KAPSAMI
SCOPE OF LICENCE

- YAXC7V-R BEYAN GERİLİMİ 12/20 kV OLAN, ALÜMİNYUM İLETKENLİ, ÇAPRAZ BAĞLI POLİETİLEN YALTIMLI, BAKIR EKRANLI, PVC KILIFLI GÜÇ KABLOSU

e-imzalı/e-signed

26.06.2025

Belgelendirme Merkezi Başkanı Adına
SOYDAN CERAN

ELEKTROTEKNİK SEKTÖRÜ MÜDÜRÜ

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.
*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kazıntı ve silinti yapılamaz.
*TSE ELEKTROTEKNİK SEKTÖRÜ MÜDÜRLÜĞÜ * Adres: Necatibey Cad.No:112 06100 Bakanlıklar/ANKARA * Telefon: 0312 416 63 96* Faks: 0312-416 66 17
*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr

https://evrakkontrol.tse.org.tr/BelgeDogrulama.aspx?p=k1bfcscp adresinden belgenin doğruluğunu ve geçerliliğini sorgulayınız.

iNKACABLE

TÜRK STANDARDLARI ENSTİTÜSÜ
KRİTERE UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMANCE TO CRITERIA

Markanın Tanımı Description of the Mark

TSEK veya / or TSEK

BELGE NUMARASI *REFERENCE NUMBER OF LICENCE*	0386185-TSEK-01/01
BELGENİN İLK VERİLİŞ TARİHİ *DATE OF FIRST ISSUE OF LICENCE*	27.08.2025
BELGENİN SON GEÇERLİLİK TARİHİ *LICENCE VALID UNTIL*	27.08.2026
BELGE SAHİBİ KURULUŞUN ADI *NAME OF THE LICENCE HOLDER*	İNTEKAR GLOBAL CORPARATION
BELGE SAHİBİ KURULUŞUN ADRESİ *ADRESS OF THE LICENCE HOLDER*	INDUSTRY ZONE, DUBROVO NEGOTİNO 1440 , NORTH MACEDONİA Gostivar
ÜRETİM YERİ ADI *NAME OF THE MANUFACTURING PLACE*	İNTEKAR GLOBAL CORPARATION
ÜRETİM YERİ ADRESİ *ADRESS OF THE MANUFACTURING PLACE*	INDUSTRY ZONE, DUBROVO NEGOTİNO 1440 , NORTH MACEDONİA Negotino
TESCİLLİ TİCARİ MARKASI *REGISTERED TRADE MARK*	INKA CABLE NEGOTİNO
İLGİLİ BELGELENDİRME KRİTERİ *RELATED TURKISH STANDARD*	TSE K 204 / 21.01.2014
BELGE KAPSAMI *SCOPE OF LICENCE*	

- YAXC7V-R ((N)A2XSY), BEYAN GERİLİMİ 20.3/35 KV OLAN, ALÜMİNYUM İLETKENLİ, ÇAPRAZ BAĞLI POLİETİLEN YALITIMLI, BAKIR EKRANLI, PVC KILIFLI VE YALITIMI EKSTRÜZYONLA ÇEKİLMİŞ ORTA GERİLİM GÜÇ KABLOLARI.
- YAXC7(Q)V-R (NA2XS(F)Y) , BEYAN GERİLİMİ 20.3/35 KV OLAN, ALÜMİNYUM İLETKENLİ, ÇAPRAZ BAĞLI POLİETİLEN YALITIMLI, ŞİŞEN BANTLI, BAKIR EKRANLI, ŞİŞEN BANTLI, PVC KILIFLI VE YALITIMI EKSTRÜZYONLA ÇEKİLMİŞ ORTA GERİLİM GÜÇ KABLOLARI.

e-imzalı/e-signed

27/08/2025

Belgelendirme Merkezi Başkanı Adına
UMUT TAŞAR

ELEKTROTEKNİK SEKTÖRÜ MÜDÜR V.

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.
*Bu belge, hiç bir surette tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kazıntı ve silinti yapılamaz.
*TSE ELEKTROTEKNİK SEKTÖRÜ MÜDÜRLÜĞÜ * Adres: Necatibey Cad.No:112 06100 Bakanlıklar/ANKARA * Telefon: 0312 416 63 96* Faks: 0312-416 66 17
*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr

https://evrakkontrol.tse.org.tr/BelgeDogrulama.aspx?p=9qnioy1a adresinden belgenin doğruluğunu ve geçerliliğini sorgulayın

TÜV NORD

Zertifikat

Certificate

Registrier-Nr.
Registered No.

44 780 24 406749 - 417

Zeichen des Auftraggebers *Customer's reference*	Auftragsdatum *Date of order*	Aktenzeichen *File reference*	Prüfbericht Nr. *Test report no.*
QT-PVP06128/23C	2023-06-25	PVP06128/23C	492012914.001

Name und Anschrift des Auftraggebers

İNTEKAR GLOBAL CORPORATION
Kej Bratstvo Edinstvo br. 3 Gostivar 1230

Name and address of the customer

ist berechtigt, das unten genannte Produkt mit dem abgebildeten Zeichen zu kennzeichnen

TÜV NORD
TÜV NORD CERT GmbH
Baumuster geprüft

Is authorized to provide the product mentioned below with the mark as illustrated

Fertigungsstätte

İNTEKAR GLOBAL CORPORATION
H.Z. Taghiyev settlement, AZ5022 Sumqayit, Acerbaijan

Manufacturer plant

Geprüft nach

EN 50618:2014
IEC 62930:2017

Tested in accordance with

Beschreibung des Produktes (Details s. Anlage 1)

Elektrokabel für Photovoltaikanlagen
Electric Cables for Photovoltaic Systems

62930 IEC 131 1x 1.5...50mm² / H1Z2Z2-K 1x1.5...50mm²

Description of products (Details see Annex 1)

TÜV NORD CERT GmbH
Zertifizierungsstelle
Fachleiter Konsumgüter

Gültig bis/ *Valid until:* **2029-10-29**

Essen, 2024-10-30

Bitte beachten sie auch die umseitigen Hinweise
Please also pay attention to the information stated overleaf

Am TÜV 1 • D-45307 Essen • Fon +49 (0)201 825 5120 • Fax +49 (0)201 825 3209 • Email: prodcert@tuev-nord.de

VDE Prüf- und Zertifizierungsinstitut

ZEICHENGENEHMIGUNG
MARKS APPROVAL

Intekar Global Corporation Doo
Kej Bratstvo Edinstvo br. 3
1230 Gostivar
Macedonia

ist berechtigt, für ihr Produkt /
is authorized to use for their product

PVC-isolierte Kabel ohne konzentrischen Leiter
PVC-insulated cable without concentric conductor

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.

VDE-Kabelzeichen
VDE Cable Mark

◁VDE▷ 0276 oder/*or* ◁▷ɑɯ▷ 0276

Geprüft und zertifiziert nach /
Tested and certified according to

DIN VDE 0276-603 (VDE 0276-603):2010-03; HD 603 S1:1994/A3:2007

Befristet zum / *valid until*: 2029-12-31

Aktenzeichen: 5031252-5220-0603 / 327406
File ref.:

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / *Certification*

Ausweis-Nr. 40060214
Certificate No.

Blatt 1
Page

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2025-04-29

M. Tasotti

VDE Zertifikate sind nur gültig bei Veröffentlichung unter:
VDE certificates are valid only when published on:
http://www.vde.com/zertifikat
http://www.vde.com/certificate

VDE

CONTENTS

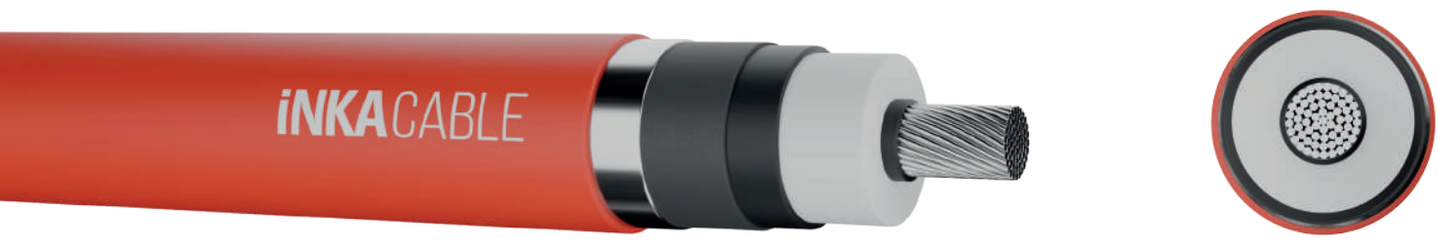
NA2X(FL)2Y
6-10kV....14
12-20kV....15
18-30kV....16
20.3-35kV....17
NA2XS(F)2Y
6-10kV....18
12-20kV....19
18-30kV....20
20.3-35kV....21
NA2XS(F)2YY
6-10kV....23
12-20kV....24
18-30kV....25
20.3-35kV....26
NA2XS(FL)2Y
6-10kV....27
12-20kV....28
18-30kV....29
20.3-35kV....30
NA2XS2Y
6-10kV....32
12-20kV....33
18-30kV....34
20.3-35kV....35
NA2XSEY
6-10kV....36
12-20kV....37
18-30kV....38
20.3-35kV....39
NA2XSEYBY
6-10kV....41
12-20kV....42
18-30kV....43
20.3-35kV....44
NA2XSEYFGbY
6-10kV....45
12-20kV....46
18-30kV....47
20.3-35kV....48
NA2XSEYRGbY
6-10kV....50
12-20kV....51
18-30kV....52
20.3-35kV....53
NA2XSY
6-10kV....54
12-20kV....55
18-30kV....56
20.3-35kV....57
N2X(FL)2Y
6-10kV....59
12-20kV....60
18-30kV....61
20.3-35kV....62
N2XS(F)2Y
6-10kV....63
12-20kV....64
18-30kV....65
20.3-35kV....66
N2XS(F)2YY
6-10kV....68
12-20kV....69
18-30kV....70
20.3-35kV....71
N2XS(FL)2Y
6-10kV....72
12-20kV....73
18-30kV....74
20.3-35kV....75
N2XS2Y
6-10kV....77
12-20kV....78
18-30kV....79
20.3-35kV....80
N2XSEY
6-10kV....81
12-20kV....82
18-30kV....83
20.3-35kV....84
N2XSEYBY
6-10kV....86
12-20kV....87
18-30kV....88
20.3-35kV....89
N2XSEYFGbY
6-10kV....90
12-20kV....91
18-30kV....92
20.3-35kV....93
N2XSEYRGbY
6-10kV....95
12-20kV....96
18-30kV....97
20.3-35kV....98
N2XSY
6-10kV....99
12-20kV....100
18-30kV....101
20.3-35kV....102

TECHNICAL INFORMATION....103-121

NA2X(FL)2Y & AL/XLPE/ SCWBT/ALT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Semicontuctive Waterblocking Tape / Copolymer-Coated Aluminum Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV



Technical Data	
Core temperature, max.	90 °C in Operation
Max. Short Circuit Temperature	250 °C / 5 sec.
Bending Radius, min.	15 x D cable
Max. Permessble Tensile	30 N/mm^2

Cable Structure
1-Circular Compacted Aluminium (Class 2 IEC 60228)
2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
3-XLPE Insulation
4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
5-Semi Conductive Waterblocking Tape
6-Copolymer-Coated Aluminum Tape
7-PE Outer Sheath (ST 7 IEC 60502-2)

Application

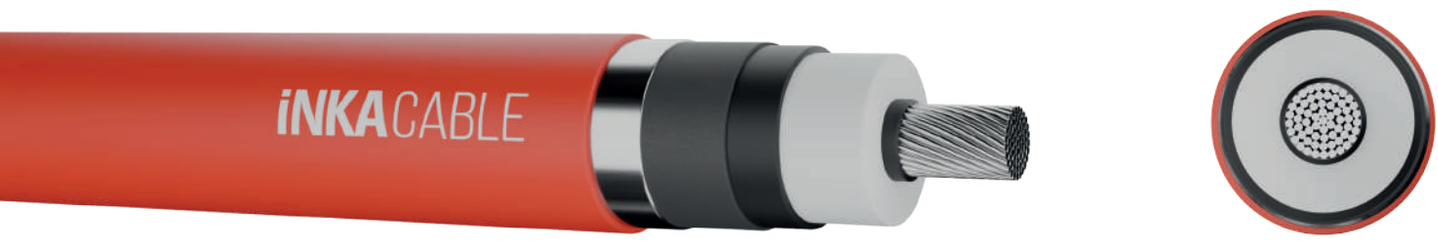
These cables have very low dielectric losses and are used in networks with sudden load changes, in residential and industrial areas where short-circuit current levels are high, in cable ducts/channels, and underground. Thanks to barriers that prevent the cable from taking in water due to mechanical impacts, they are also suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	21,0	370	1000	1,20	0,19	-	-
1x35/16	22,0	420	1000	0,868	0,21	-	-
1x50/16	23,0	475	1000	0,641	0,23	194	215
1x70/16	25,0	570	1000	0,443	0,26	236	269
1x95/16	27,0	675	1000	0,320	0,30	281	327
1x120/16	28,0	775	1000	0,253	0,32	318	377
1x150/25	30,0	880	1000	0,206	0,35	350	424
1x185/25	31,0	1020	1000	0,164	0,38	393	485
1x240/25	34,0	1240	1000	0,125	0,43	453	573
1x300/25	36,0	1455	1000	0,100	0,47	507	652
1x400/35	39,0	1770	1000	0,0778	0,52	559	741

NA2X(FL)2Y & AL/XLPE/ SCWBT/ALT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Semicontuctive Waterblocking Tape / Copolymer-Coated Aluminum Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV



Technical Data	
Core temperature, max.	90 °C in Operation
Max. Short Circuit Temperature	250 °C / 5 sec.
Bending Radius, min.	15 x D cable
Max. Permessble Tensile	30 N/mm^2

Cable Structure
1-Circular Compacted Aluminium (Class 2 IEC 60228)
2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
3-XLPE Insulation
4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
5-Semi Conductive Waterblocking Tape
6-Copolymer-Coated Aluminum Tape
7-PE Outer Sheath (ST 7 IEC 60502-2)

Application

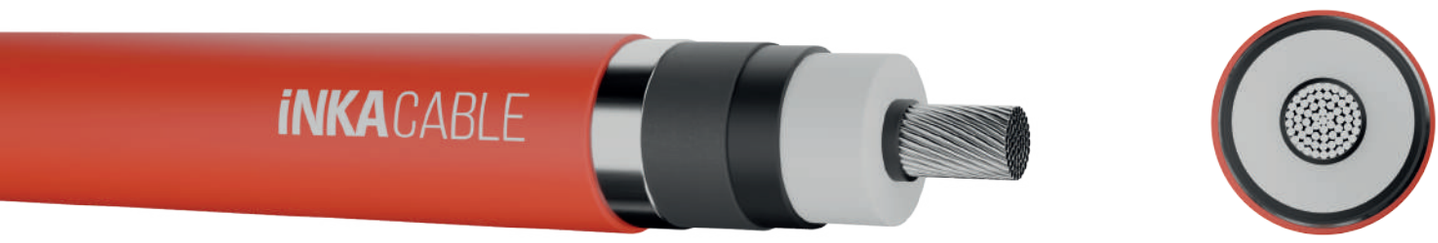
These cables, which have very low dielectric losses, are used in networks with sudden load variations, in residential and industrial areas where short-circuit current levels are high, as well as in cable ducts and underground installations. Thanks to barriers that prevent the cable from taking in water due to mechanical impacts, they are also suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	25,0	515	1000	1,20	0,14	-	-
1x35/16	26,0	565	1000	0,868	0,15	-	-
1x50/16	27,0	635	1000	0,641	0,16	195	217
1x70/16	29,0	740	1000	0,443	0,18	237	270
1x95/16	31,0	865	1000	0,320	0,20	282	328
1x120/16	33,0	975	1000	0,253	0,21	320	378
1x150/25	34,0	1090	1000	0,206	0,24	353	425
1x185/25	36,0	1245	1000	0,164	0,26	396	485
1x240/25	38,0	1480	1000	0,125	0,29	457	573
1x300/25	41,0	1710	1000	0,100	0,31	511	652
1x400/35	44,0	2045	1000	0,0778	0,35	566	740

NA2X(FL)2Y & AL/XLPE/ SCWBT/ALT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Semicontuctive Waterblocking Tape / Copolymer-Coated Alüminium Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV



Technical Data	
Core temperature, max.	90 °C in Operation
Max. Short Circuit Temperature	250 °C / 5 sec.
Bending Radius, min.	15 x D cable
Max. Permessble Tensile	30 N/mm^2

Cable Structure
1-Circular Compacted Aluminium (Class 2 IEC 60228)
2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
3-XLPE Insulation
4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
5-Semi Conductive Waterblocking Tape
6-Copolymer-Coated Aluminum Tape
7-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables have very low dielectric losses and are used in networks with sudden load fluctuations, in residential and industrial areas where short-circuit current levels are high, in cable ducts/channels, and in underground installations. Thanks to barriers that prevent the cable from taking in water due to mechanical impacts, they are also suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	31,0	730	1000	1,20	0,11	-	-
1x35/16	32,0	790	1000	0,868	0,12	-	-
1x50/16	33,0	870	1000	0,641	0,13	196	217
1x70/16	35,0	990	1000	0,443	0,14	238	270
1x95/16	37,0	1130	1000	0,320	0,16	284	328
1x120/16	38,0	1250	1000	0,253	0,17	322	378
1x150/25	40,0	1380	1000	0,206	0,18	355	425
1x185/25	41,0	1550	1000	0,164	1,19	400	485
1x240/25	44,0	1802	1000	0,125	0,21	461	572
1x300/25	46,0	2050	1000	0,100	0,23	516	649
1x400/35	49,0	2410	1000	0,0778	0,26	572	737

NA2X(FL)2Y & AL/XLPE/ SCWBT/ALT/PE

Standard: TSE K 204 / TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Semicontuctive Waterblocking Tape / Copolymer-Coated Alüminium Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data	
Core temperature, max.	90°C in Operation
Max. Short Circuit Temperature	250°C / 5 sec.
Bending Radius, min.	15 x D cable
Max. Permessble Tensile	30 N/mm^2

Cable Structure
1-Circular Compacted Aluminium (Class 2 IEC 60228)
2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
3-XLPE Insulation
4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
5-Semi Conductive Waterblocking Tape
6-Copolymer-Coated Aluminum Tape
7-PE Outer Sheath (ST 7 IEC 60502-2)

Application

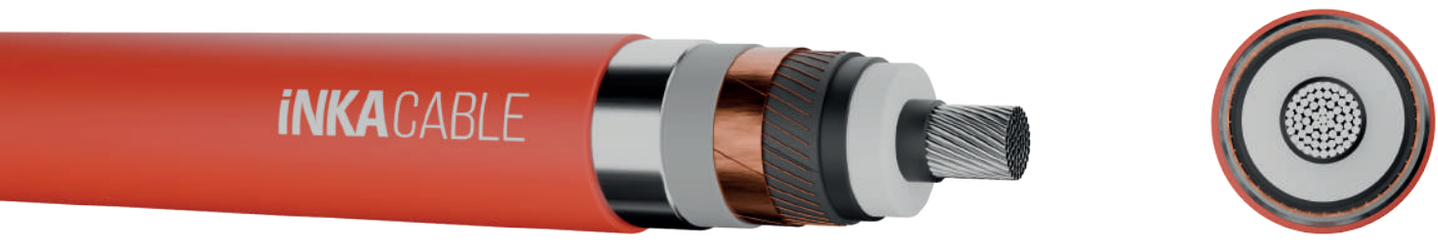
These cables, which have very low dielectric losses, are used in networks where sudden load changes occur, in residential and industrial areas with high short-circuit current levels, in cable ducts, and underground. Thanks to barriers that prevent the cable from taking in water due to mechanical impacts, they are also suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	32,0	830	1000	1,20	0,10	-	-
1x35/16	33,0	895	1000	0,868	0,11	-	-
1x50/16	35,0	975	1000	0,641	0,12	196	217
1x70/16	36,0	1100	1000	0,443	0,13	238	270
1x95/16	38,0	1250	1000	0,320	0,14	284	328
1x120/16	40,0	1375	1000	0,253	0,16	322	378
1x150/25	41,0	1510	1000	0,206	0,17	355	425
1x185/25	43,0	1680	1000	0,164	0,18	400	485
1x240/25	45,0	1940	1000	0,125	0,2	461	572
1x300/25	48,0	2195	1000	0,100	0,21	516	649
1x400/35	51,0	2570	1000	0,0778	0,23	572	737

NA2XS(F)2Y & AL/XLPE/ SCWBT/CWS/WBT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2 / BS 7870

Aluminum Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV



Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-Non-Conductive Swellable Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in networks where sudden load changes occur, in residential and industrial areas with high short-circuit current values, in cable ducts, and underground installations. Thanks to the barriers that prevent water ingress caused by mechanical impacts, the cable is suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	24,0	500	1000	1,20	0,19	-	-
1x35/16	25,0	545	1000	0,868	0,21	-	-
1x50/16	26,0	600	1000	0,641	0,23	194	215
1x70/16	28,0	690	1000	0,443	0,26	236	269
1x95/16	30,0	790	1000	0,320	0,30	281	327
1x120/16	31,0	885	1000	0,253	0,32	318	377
1x150/25	33,0	1070	1000	0,206	0,35	350	424
1x185/25	35,0	1210	1000	0,164	0,38	393	485
1x240/25	37,0	1425	1000	0,125	0,43	453	573
1x300/25	39,0	1635	1000	0,100	0,47	507	652
1x400/35	43,0	2035	1000	0,0778	0,52	559	741

NA2XS(F)2Y & AL/XLPE/ SCWBT/CWS/WBT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-Non-Conductive Swellable Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2)

Application

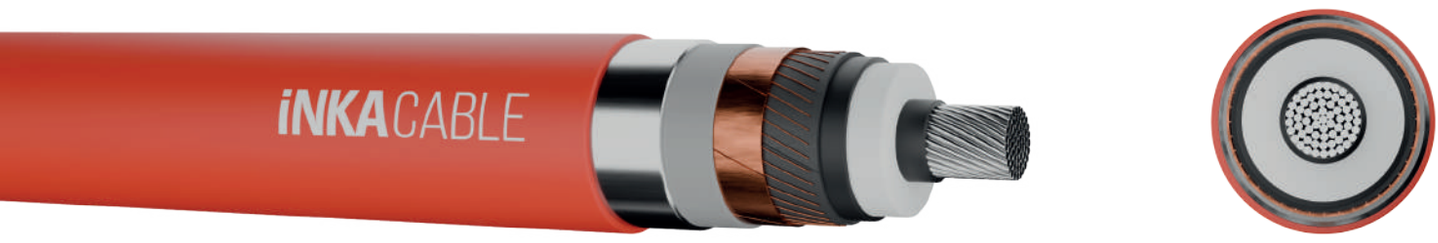
These cables, which have very low dielectric losses, are used in networks where sudden load changes occur, in residential and industrial areas with high short-circuit current values, in cable ducts, and underground installations. Thanks to the barriers that prevent water ingress caused by mechanical impacts, the cable is suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	29,0	635	1000	1,20	0,14	-	-
1x35/16	30,0	680	1000	0,868	0,15	-	-
1x50/16	31,0	750	1000	0,641	0,16	195	217
1x70/16	32,0	850	1000	0,443	0,18	237	270
1x95/16	34,0	970	1000	0,320	0,20	282	328
1x120/16	36,0	1080	1000	0,253	0,22	320	378
1x150/25	37,0	1275	1000	0,206	0,24	353	425
1x185/25	39,0	1425	1000	0,164	0,26	396	485
1x240/25	42,0	1655	1000	0,125	0,29	457	573
1x300/25	44,0	1880	1000	0,100	0,31	511	652
1x400/35	47,0	2305	1000	0,0778	0,35	566	740

NA2XS(F)2Y & AL/XLPE/ SCWBT/CWS/WBT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV



Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-Non-Conductive Swellable Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in networks with sudden load changes, in residential and industrial areas where short-circuit current levels are high, in cable ducts, and for underground installations. Thanks to the barriers that prevent water ingress caused by mechanical impacts, the cable is suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	34,0	840	1000	1,20	0,11	-	-
1x35/16	35,0	900	1000	0,868	0,12	-	-
1x50/16	36,0	975	1000	0,641	0,13	196	217
1x70/16	38,0	1090	1000	0,443	0,14	238	270
1x95/16	40,0	1255	1000	0,320	0,16	284	328
1x120/16	41,0	1345	1000	0,253	0,17	322	378
1x150/25	43,0	1555	1000	0,206	0,18	355	425
1x185/25	44,0	1720	1000	0,164	0,19	400	485
1x240/25	47,0	1965	1000	0,125	0,21	461	572
1x300/25	49,0	2210	1000	0,100	0,23	516	649
1x400/35	52,0	2660	1000	0,0778	0,26	572	737

NA2XS(F)2Y & AL/XLPE/ SCWBT/CWS/WBT/PE

Standard: TSE K 204 \ TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-Non-Conductive Swellable Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in networks with sudden load changes, in residential and industrial areas where short-circuit current values are high, in cable ducts, and in underground installations. Thanks to the barriers that prevent water ingress caused by mechanical impacts, the cable is suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	36,0	935	1000	1,20	0,10	-	-
1x35/16	37,0	995	1000	0,868	0,11	-	-
1x50/16	38,0	1075	1000	0,641	0,12	196	217
1x70/16	40,0	1195	1000	0,443	0,13	238	270
1x95/16	42,0	1335	1000	0,320	0,14	284	328
1x120/16	43,0	1465	1000	0,253	0,16	322	378
1x150/25	45,0	1675	1000	0,206	0,17	355	425
1x185/25	47,0	1845	1000	0,164	0,18	400	485
1x240/25	49,0	2100	1000	0,125	0,2	461	572
1x300/25	51,0	2355	1000	0,100	0,21	516	649
1x400/35	55,0	2810	1000	0,0778	0,23	572	737



NA2XS(F)2YY & AL/XLPE/ SCWBT/CWS/WBT/PE/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2 / BS 7870

Aluminum Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Inner Sheath / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-Non-Conductive Swellable Tape
		8-PE Inner Sheath (ST 7 IEC 60502-2)
		9-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in networks where sudden load changes occur, in residential and industrial areas with high short-circuit current values, in cable ducts, and underground. Thanks to the barriers that prevent water ingress due to mechanical impacts, the cable is suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	27,0	675	1000	1,20	0,19	-	-
1x35/16	28,0	715	1000	0,868	0,21	-	-
1x50/16	29,0	780	1000	0,641	0,23	194	215
1x70/16	30,0	890	1000	0,443	0,26	236	269
1x95/16	32,0	1015	1000	0,320	0,30	281	327
1x120/16	34,0	1110	1000	0,253	0,32	318	377
1x150/25	35,0	1310	1000	0,206	0,35	350	424
1x185/25	37,0	1470	1000	0,164	0,38	393	485
1x240/25	40,0	1710	1000	0,125	0,43	453	573
1x300/25	42,0	1950	1000	0,100	0,47	507	652
1x400/35	45,0	2395	1000	0,0778	0,52	559	741

NA2XS(F)2YY & AL/XLPE/ SCWBT/CWS/WBT/PE/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2 / BS 7870x

Aluminum Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Inner Sheath / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-Non-Conductive Swellable Tape
		8-PE Inner Sheath (ST 7 IEC 60502-2)
		9-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in networks where sudden load changes occur, in residential and industrial areas with high short-circuit current values, in cable ducts, and in underground applications. Thanks to the barriers that prevent water ingress due to mechanical impacts, the cable is suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	31,0	840	1000	1,20	0,14	-	-
1x35/16	32,0	905	1000	0,868	0,15	-	-
1x50/16	33,0	980	1000	0,641	0,16	195	217
1x70/16	35,0	1095	1000	0,443	0,18	237	270
1x95/16	37,0	1235	1000	0,320	0,20	282	328
1x120/16	38,0	1350	1000	0,253	0,22	320	378
1x150/25	40,0	1565	1000	0,206	0,24	353	425
1x185/25	42,0	1740	1000	0,164	0,26	396	485
1x240/25	44,0	2000	1000	0,125	0,29	457	573
1x300/25	47,0	2255	1000	0,100	0,31	511	652
1x400/35	50,0	2725	1000	0,0778	0,35	566	740

NA2XS(F)2YY & AL/XLPE/ SCWBT/CWS/WBT/PE/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2 / BS 7870

Aluminum Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Inner Sheath / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-Non-Conductive Swellable Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2)
		9-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in networks where sudden load changes occur, in residential and industrial areas with high short-circuit current values, in cable ducts, and underground. Thanks to the barriers that prevent water ingress due to mechanical impacts, the cable is suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	36,0	1065	1000	1,20	0,11	-	-
1x35/16	37,0	1170	1000	0,868	0,12	-	-
1x50/16	38,0	1255	1000	0,641	0,13	196	217
1x70/16	40,0	1390	1000	0,443	0,14	238	270
1x95/16	42,0	1545	1000	0,320	0,16	284	328
1x120/16	44,0	1685	1000	0,253	0,17	322	378
1x150/25	45,0	1915	1000	0,206	0,18	355	425
1x185/25	47,0	2105	1000	0,164	0,19	400	485
1x240/25	50,0	2385	1000	0,125	0,21	461	572
1x300/25	52,0	2665	1000	0,100	0,23	516	649
1x400/35	55,0	3165	1000	0,0778	0,26	572	737

NA2XS(F)2YY & AL/XLPE/ SCWBT/CWS/WBT/PE/PVC

Standard: TSE K 204 \ TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Inner Sheath / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-Non-Conductive Swellable Tape
		8-PE Inner Sheath (ST 7 IEC 60502-2)
		9-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in networks where sudden load changes occur, in residential and industrial areas with high short-circuit current values, in cable ducts, and in underground applications. Thanks to the barriers that prevent water ingress due to mechanical impacts, the cable is suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	38,0	1170	1000	1,20	0,10	-	-
1x35/16	39,0	1290	1000	0,868	0,11	-	-
1x50/16	41,0	1380	1000	0,641	0,12	196	217
1x70/16	42,0	1520	1000	0,443	0,13	238	270
1x95/16	44,0	1680	1000	0,320	0,14	284	328
1x120/16	46,0	1835	1000	0,253	0,16	322	378
1x150/25	48,0	2070	1000	0,206	0,17	355	425
1x185/25	49,0	2265	1000	0,164	0,18	400	485
1x240/25	52,0	2555	1000	0,125	0,20	461	572
1x300/25	54,0	2840	1000	0,100	0,21	516	649
1x400/35	58,0	3355	1000	0,0778	20,3	572	737

NA2XS(FL)2Y & AL/XLPE/ SCWBT/CWS/WBT/ALT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / Copolymer - Coated Aluminum Tape / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-Non-Conductive Swellable Tape
		8-Copolymer-Coated Aluminium Tape
		9-PE Outer Sheath (ST 7 IEC 60502-2)

Application

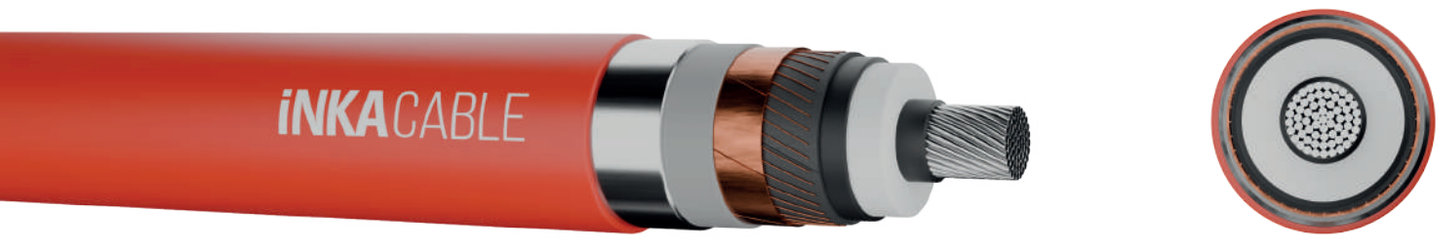
These cables, which have very low dielectric losses, are used in networks where sudden load changes occur, in residential and industrial areas with high short-circuit current values, in cable ducts, and underground. Thanks to the barriers that prevent water ingress due to mechanical impacts, the cable is suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	25,0	550	1000	1,20	0,19	-	-
1x35/16	26,0	600	1000	0,868	0,21	-	-
1x50/16	27,0	660	1000	0,641	0,23	194	217
1x70/16	29,0	750	1000	0,443	0,26	236	296
1x95/16	30,0	860	1000	0,320	0,30	281	327
1x120/16	32,0	960	1000	0,253	0,32	318	377
1x150/25	33,0	1150	1000	0,206	0,35	350	424
1x185/25	35,0	1290	1000	0,164	0,38	393	485
1x240/25	38,0	1510	1000	0,125	0,43	453	573
1x300/25	40,0	1730	1000	0,100	0,47	507	652
1x400/35	43,0	2130	1000	0,0778	0,52	559	741

NA2XS(FL)2Y & AL/XLPE/ SCWBT/CWS/WBT/ALT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / Copolymer-Coated Alüminium Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV



Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-Non-Conductive Swellable Tape
		8-Copolymer-Coated Aluminium Tape
		9-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in networks where sudden load changes occur, in residential and industrial areas with high short-circuit current values, in cable ducts, and in underground applications. Thanks to the barriers that prevent water ingress due to mechanical impacts, the cable is suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	29,0	700	1000	1,20	0,14	-	-
1x35/16	30,0	750	1000	0,868	0,15	-	-
1x50/16	31,0	820	1000	0,641	0,16	195	217
1x70/16	33,0	920	1000	0,443	0,18	237	270
1x95/16	35,0	1050	1000	0,320	0,20	282	328
1x120/16	36,0	1165	1000	0,253	0,22	320	378
1x150/25	38,0	1360	1000	0,206	0,24	353	425
1x185/25	40,0	1515	1000	0,164	0,26	396	485
1x240/25	42,0	1750	1000	0,125	0,29	457	573
1x300/25	44,0	1985	1000	0,100	0,31	511	652
1x400/35	48,0	2415	1000	0,0778	0,35	566	740

NA2XS(FL)2Y & AL/XLPE/ SCWBT/CWS/WBT/ALT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / Copolymer-Coated Alüminium Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-Non-Conductive Swellable Tape
		8-Copolymer-Coated Aluminium Tape
		9-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in networks with sudden load changes, in residential and industrial areas where short-circuit current values are high, in cable ducts, and underground installations. Thanks to the barriers that prevent water ingress caused by mechanical impacts, the cable is also suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	34,0	920	1000	1,20	0,11	-	-
1x35/16	35,0	980	1000	0,868	0,12	-	-
1x50/16	37,0	1060	1000	0,641	0,13	196	217
1x70/16	38,0	1180	1000	0,443	0,14	238	270
1x95/16	40,0	1320	1000	0,320	0,16	284	328
1x120/16	42,0	1445	1000	0,253	0,17	322	378
1x150/25	43,0	1655	1000	0,206	0,18	355	425
1x185/25	45,0	1860	1000	0,164	0,19	400	485
1x240/25	47,0	2075	1000	0,125	0,21	461	572
1x300/25	50,0	2325	1000	0,100	0,23	516	649
1x400/35	53,0	2780	1000	0,0778	0,26	572	737

NA2XS(FL)2Y & AL/XLPE/ SCWBT/CWS/WBT/ALT/PE

Standard: TSE K 204 / TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / Copolymer-Coated Alüminium Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-Non-Conductive Swellable Tape
		8-Copolymer-Coated Aluminium Tape
		9-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in networks with sudden load changes, in residential and industrial areas where short-circuit current values are high, in cable ducts, and underground installations. Thanks to the barriers that prevent water ingress caused by mechanical impacts, the cable is also suitable for use in water.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	37,0	1020	1000	1,20	0,10	-	-
1x35/16	38,0	1080	1000	0,868	0,11	-	-
1x50/16	39,0	1165	1000	0,641	0,12	196	217
1x70/16	40,0	1290	1000	0,443	0,13	238	270
1x95/16	42,0	1435	1000	0,320	0,14	284	328
1x120/16	44,0	1560	1000	0,253	0,16	322	378
1x150/25	45,0	1780	1000	0,206	0,17	355	425
1x185/25	47,0	1950	1000	0,164	0,18	400	485
1x240/25	50,0	2220	1000	0,125	0,2	461	572
1x300/25	52,0	2475	1000	0,100	0,21	516	649
1x400/35	55,0	2940	1000	0,0778	0,23	572	737



NA2XS2Y & AL/XLPE/SCT/ CWS/PET/PE & YAXC7E-R

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		*Cable Structure*
Core temperature, max.	90°C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	22,0	480	1000	1,20	0,19	-	-
1x35/16	23,0	520	1000	0,868	0,21	155	170
1x50/16	24,0	575	1000	0,641	0,23	194	215
1x70/16	26,0	665	1000	0,443	0,26	236	269
1x95/16	27,0	765	1000	0,320	0,30	281	327
1x120/16	29,0	860	1000	0,253	0,32	318	377
1x150/25	30,0	1045	1000	0,206	0,35	350	424
1x185/25	32,0	1185	1000	0,164	0,38	393	485
1x240/25	34,0	1395	1000	0,125	0,43	453	573
1x300/25	37,0	1605	1000	0,100	0,47	507	652
1x400/35	40,0	2005	1000	0,0778	0,52	559	741

NA2XS2Y & AL/XLPE/SCT/ CWS/PET/PE & YAXC7E-R

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	26,0	610	1000	1,20	0,14	-	-
1x35/16	27,0	655	1000	0,868	0,15	158	172
1x50/16	28,0	720	1000	0,641	0,16	195	217
1x70/16	29,0	825	1000	0,443	0,18	237	270
1x95/16	31,0	945	1000	0,320	0,20	282	328
1x120/16	33,0	1050	1000	0,253	0,22	320	378
1x150/25	34,0	1245	1000	0,206	0,24	353	425
1x185/25	36,0	1395	1000	0,164	0,26	396	485
1x240/25	39,0	1620	1000	0,125	0,29	457	573
1x300/25	41,0	1845	1000	0,100	0,31	511	652
1x400/35	44,0	2265	1000	0,0778	0,35	566	740

NA2XS2Y & AL/XLPE/SCT/ CWS/PET/PE & YAXC7E-R

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	31,0	830	1000	1,20	0,11	-	-
1x35/16	32,0	890	1000	0,868	0,12	-	-
1x50/16	33,0	965	1000	0,641	0,13	196	217
1x70/16	35,0	1080	1000	0,443	0,14	238	270
1x95/16	37,0	1220	1000	0,320	0,16	284	328
1x120/16	38,0	1340	1000	0,253	0,17	322	378
1x150/25	40,0	1545	1000	0,206	0,18	355	425
1x185/25	42,0	1710	1000	0,164	0,19	400	485
1x240/25	44,0	1960	1000	0,125	0,21	461	572
1x300/25	46,0	2205	1000	0,100	0,23	516	649
1x400/35	49,0	2650	1000	0,0778	0,26	572	737

NA2XS2Y & AL/XLPE/SCT/ CWS/PET/PE & YAXC7E-R

Standard: TSE K 204 \ TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	33,0	930	1000	1,20	0,10	-	-
1x35/16	34,0	990	1000	0,868	0,11	-	-
1x50/16	35,0	1070	1000	0,641	0,12	196	217
1x70/16	37,0	1190	1000	0,443	0,13	238	270
1x95/16	39,0	1335	1000	0,320	0,14	284	328
1x120/16	40,0	1460	1000	0,253	0,16	322	378
1x150/25	42,0	1670	1000	0,206	0,17	355	425
1x185/25	44,0	1840	1000	0,164	0,18	400	485
1x240/25	46,0	2095	1000	0,125	0,20	461	572
1x300/25	48,0	2350	1000	0,100	0,21	516	649
1x400/35	57,0	2805	1000	0,0778	0,23	572	737

NA2XSEY & AL/XLPE/ SCT/CWS/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular Compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, Semi-Conductive Conductor Screen(Inner Semi-Conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, Semi-Conductive Insulation Screen(Outer Semi-Conductive Layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi Conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	43,0	2130	1000	1,20	0,17	-	-
3x35/16	46,0	2415	1000	0,868	0,19	-	-
3x50/16	48,0	2720	1000	0,641	0,21	162	160
3x70/16	52,0	3200	1000	0,443	0,23	199	199
3x95/16	57,0	3825	1000	0,320	0,26	238	242
3x120/16	60,0	4325	1000	0,253	0,28	271	280
3x150/25	63,0	4850	1000	0,206	0,31	304	318
3x185/25	67,0	5535	500	0,164	0,33	345	365
3x240/25	73,0	6635	500	0,125	0,37	401	431
3x300/25	77,0	7630	500	0,100	0,40	453	494
3x400/35	85,0	9175	500	0,0778	0,45	517	569

NA2XSEY & AL/XLPE/ SCT/CWS/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	54,0	3130	1000	1,20	0,13	-	-
3x35/16	56,0	3465	1000	0,868	0,14	-	-
3x50/16	59,0	3825	1000	0,641	0,15	168	171
3x70/16	62,0	4370	1000	0,443	0,17	207	211
3x95/16	66,0	5020	1000	0,320	0,19	247	255
3x120/16	70,0	5575	1000	0,253	0,21	282	297
3x150/25	73,0	6235	500	0,206	0,22	316	334
3x185/25	77,0	6995	500	0,164	0,24	359	384
3x240/25	83,0	8125	500	0,125	0,26	420	454
3x300/25	87,0	9205	500	0,100	0,28	476	513
3x400/35	95,0	10975	500	0,0778	0,32	552	593

NA2XSEY & AL/XLPE/ SCT/CWS/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	65,0	4620	1000	1,20	0,11	-	-
3x35/16	68,0	4950	1000	0,868	0,12	-	-
3x50/16	70,0	5370	1000	0,641	0,12	166	164
3x70/16	74,0	6075	500	0,443	0,14	204	204
3x95/16	78,0	6820	500	0,320	0,15	244	248
3x120/16	82,0	7455	500	0,253	0,16	278	284
3x150/25	85,0	8120	500	0,206	0,17	312	326
3x185/25	89,0	8970	500	0,164	0,18	343	374
3x240/25	94,0	10220	500	0,125	0,2	398	440
3x300/25	99,0	11505	500	0,100	0,22	-	-
3x400/35	106,0	13350	400	0,0778	0,24	-	-

NA2XSEY & AL/XLPE/ SCT/CWS/PVC

Standard: TSEK 204 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV



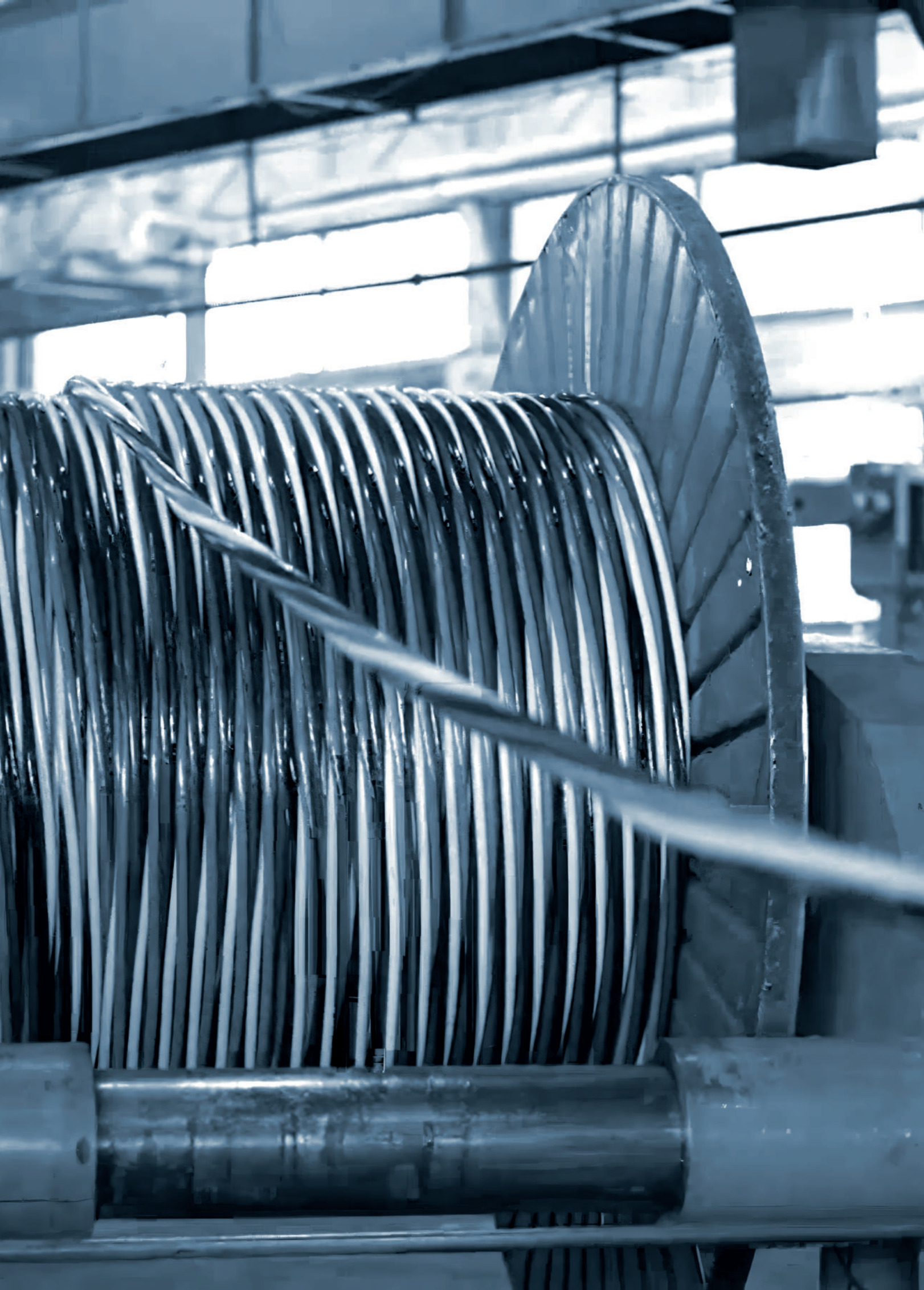


Technical Data		***Cable Structure***
Core temperature, max.	90°C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	70,0	5250	1000	1,20	0,10	-	-
3x35/16	73,0	5670	500	0,868	0,11	-	-
3x50/16	75,0	6115	500	0,641	0,11	166	164
3x70/16	79,0	6780	500	0,443	0,13	204	204
3x95/16	83,0	7265	500	0,320	0,14	244	248
3x120/16	86,0	8225	500	0,253	0,15	278	284
3x150/25	89,0	8920	500	0,206	0,16	312	326
3x185/25	93,0	9800	500	0,164	0,17	343	374
3x240/25	99,0	11200	500	0,125	0,19	398	440
3x300/25	104,0	12430	400	0,100	0,20	-	-
3x400/35	111,0	14340	350	0,0778	0,22	-	-



NA2XSEYBY & AL/XLPE/ SCT/CWS/PVC/DST/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Douple Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Douple Steel Tape Armour
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	48,0	2960	1000	1,20	0,17	-	-
3x35/16	51,0	3255	1000	0,868	0,19	-	-
3x50/16	54,0	3620	1000	0,641	0,21	162	160
3x70/16	57,0	4185	1000	0,443	0,23	199	199
3x95/16	62,0	4910	1000	0,320	0,26	238	242
3x120/16	65,0	5490	1000	0,253	0,28	271	280
3x150/25	69,0	6095	500	0,206	0,31	304	318
3x185/25	73,0	6880	500	0,164	0,33	345	365
3x240/25	79,0	8120	500	0,125	0,37	401	431
3x300/25	84,0	9240	500	0,100	0,40	453	494
3x400/35	92,0	11625	500	0,0778	0,45	517	569

NA2XSEYBY & AL/XLPE/ SCT/CWS/PVC/DST/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Douple Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Douple Steel Tape Armour
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	59,0	4200	1000	1,20	0,13	-	-
3x35/16	61,0	4600	1000	0,868	0,14	-	-
3x50/16	64,0	5030	1000	0,641	0,15	168	171
3x70/16	68,0	5665	500	0,443	0,17	207	211
3x95/16	72,0	6420	500	0,320	0,19	247	255
3x120/16	76,0	7065	500	0,253	0,21	282	297
3x150/25	79,0	7825	500	0,206	0,22	316	334
3x185/25	83,0	8695	500	0,164	0,24	359	384
3x240/25	90,0	10620	500	0,125	0,26	420	454
3x300/25	95,0	11875	400	0,100	0,28	476	513
3x400/35	103,0	13935	350	0,0778	0,32	552	593

NA2XSEYBY & AL/XLPE/ SCT/CWS/PVC/DST/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Douple Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Douple Steel Tape Armour
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	71,0	6000	500	1,20	0,11	-	-
3x35/16	74,0	6390	500	0,868	0,12	-	-
3x50/16	76,0	6880	500	0,641	0,12	166	160
3x70/16	80,0	7690	500	0,443	0,14	204	199
3x95/16	86,0	9170	500	0,320	0,15	244	242
3x120/16	88,0	9645	500	0,253	0,16	278	280
3x150/25	93,0	10705	500	0,206	0,17	312	318
3x185/25	97,0	11700	500	0,164	0,18	343	365
3x240/25	102,0	13160	400	0,125	0,2	398	431
3x300/25	105,0	14640	350	0,100	0,22	476	494
3x400/35	115,0	16780	300	0,0778	0,24	542	569

NA2XSEYBY & AL/XLPE/ SCT/CWS/PVC/DST/PVC

Standard: TSEK 204 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Douple Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Douple Steel Tape Armour
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	76,0	6750	500	1,20	0,10	-	-
3x35/16	79,0	7245	500	0,868	0,11	-	-
3x50/16	81,0	7765	500	0,641	0,11	166	164
3x70/16	86,0	9150	500	0,443	0,13	204	204
3x95/16	91,0	10080	500	0,320	0,14	244	248
3x120/16	94,0	10865	500	0,253	0,15	278	284
3x150/25	98,0	11680	500	0,206	0,16	312	326
3x185/25	102,0	12715	400	0,164	0,17	343	374
3x240/25	107,0	14330	350	0,125	0,19	398	440
3x300/25	112,0	15750	350	0,100	0,20	-	-
3x400/35	120,0	17960	300	0,0778	0,22	-	-

NA2XSEYFGbY & AL/XLPE/ SCT/CWS/PVC/FGb/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Flat Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Flat Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	49,0	3360	1000	1,20	0,17	-	-
3x35/16	51,0	3730	1000	0,868	0,19	-	-
3x50/16	54,0	4130	1000	0,641	0,21	162	160
3x70/16	58,0	4740	1000	0,443	0,23	199	199
3x95/16	62,0	5505	1000	0,320	0,26	238	242
3x120/16	66,0	6130	500	0,253	0,28	271	280
3x150/25	69,0	6760	500	0,206	0,31	304	318
3x185/25	73,0	7585	500	0,164	0,33	345	365
3x240/25	79,0	8910	500	0,125	0,37	401	431
3x300/25	84,0	10065	500	0,100	0,40	453	464
3x400/35	91,0	11900	500	0,0778	0,45	517	569

NA2XSEYFGbY & AL/XLPE/ SCT/CWS/PVC/FGb/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Flat Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Flat Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	59,0	4170	1000	1,20	0,13	-	-
3x35/16	62,0	5135	1000	0,868	0,14	-	-
3x50/16	65,0	5595	1000	0,641	0,15	168	171
3x70/16	68,0	6265	500	0,443	0,17	207	211
3x95/16	73,0	7060	500	0,320	0,19	247	255
3x120/16	76,0	7725	500	0,253	0,21	282	297
3x150/25	80,0	8525	500	0,206	0,22	316	334
3x185/25	84,0	9430	500	0,164	0,24	359	384
3x240/25	89,0	10765	500	0,125	0,26	420	454
3x300/25	94,0	12040	400	0,100	0,28	476	513
3x400/35	102,0	14100	350	0,0778	0,32	552	593

NA2XSEYFGbY & AL/XLPE/ SCT/CWS/PVC/FGb/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Flat Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Flat Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	72,0	6560	500	1,20	0,11	-	-
3x35/16	74,0	6980	500	0,868	0,12	-	-
3x50/16	76,0	7495	500	0,641	0,12	160	150
3x70/16	81,0	8340	500	0,443	0,14	199	191
3x95/16	85,0	9235	500	0,320	0,15	238	236
3x120/16	88,0	9980	500	0,253	0,16	275	273
3x150/25	92,0	10780	500	0,206	0,17	307	313
3x185/25	96,0	11785	500	0,164	0,18	349	360
3x240/25	101,0	13245	400	0,125	0,2	410	426
3x300/25	106,0	14735	350	0,100	0,22	440	495
3x400/35	114,0	16870	300	0,0778	0,24	495	564

NA2XSEYFGbY & AL/XLPE/ SCT/CWS/PVC/FGb/PVC

Standard: TSEK 204 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Flat Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Flat Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	76,0	7430	500	1,20	0,10	-	-
3x35/16	79,0	7925	500	0,868	0,11	-	-
3x50/16	82,0	8470	500	0,641	0,11	166	164
3x70/16	85,0	9280	500	0,443	0,12	204	204
3x95/16	90,0	10215	500	0,320	0,14	244	248
3x120/16	93,0	11020	500	0,253	0,15	278	284
3x150/25	96,0	11835	400	0,206	0,16	312	326
3x185/25	100,0	12875	400	0,164	0,17	343	374
3x240/25	106,0	14520	350	0,125	0,19	398	440
3x300/25	111,0	15940	350	0,100	0,20	-	-
3x400/35	119,0	18175	300	0,0778	0,22	-	-



NA2XSEYRGbY & AL/XLPE/ SCT/CWS/PVC/RGb/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Round Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Round Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	52,0	4590	1000	1,20	0,17	-	-
3x35/16	55,0	5025	1000	0,868	0,19	-	-
3x50/16	58,0	5490	1000	0,641	0,21	162	160
3x70/16	62,0	6195	500	0,443	0,23	199	199
3x95/16	66,0	7095	500	0,320	0,26	238	242
3x120/16	70,0	7795	500	0,253	0,28	271	280
3x150/25	73,0	8530	500	0,206	0,31	304	318
3x185/25	77,0	9465	500	0,164	0,33	345	365
3x240/25	84,0	11810	500	0,125	0,37	401	431
3x300/25	90,0	13610	400	0,100	0,40	453	494
3x400/35	96,0	15270	350	0,0778	0,45	517	569

NA2XSEYRGbY & AL/XLPE/ SCT/CWS/PVC/RGb/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Round Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Round Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	63,0	6205	500	1,20	0,13	-	-
3x35/16	66,0	6695	500	0,868	0,14	-	-
3x50/16	68,0	7220	500	0,641	0,15	168	171
3x70/16	72,0	7995	500	0,443	0,17	207	211
3x95/16	76,0	8905	500	0,320	0,19	247	255
3x120/16	81,0	10515	500	0,253	0,21	282	297
3x150/25	85,0	11450	500	0,206	0,22	316	334
3x185/25	89,0	12515	400	0,164	0,24	359	384
3x240/25	94,0	14060	350	0,125	0,26	420	454
3x300/25	99,0	15510	350	0,100	0,28	476	513
3x400/35	107,0	17880	300	0,0778	0,32	552	593

NA2XSEYRGbY & AL/XLPE/ SCT/CWS/PVC/RGb/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Round Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Round Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	75,0	8450	500	1,20	0,11	-	-
3x35/16	79,0	9735	500	0,868	0,11	-	-
3x50/16	82,0	10355	500	0,641	0,12	166	164
3x70/16	86,0	11365	500	0,443	0,14	204	204
3x95/16	90,0	12435	400	0,320	0,15	244	248
3x120/16	93,0	13325	400	0,253	0,16	278	284
3x150/25	97,0	14245	350	0,206	0,17	312	326
3x185/25	101,0	15405	350	0,164	0,18	343	374
3x240/25	106,0	17080	300	0,125	0,20	398	440
3x300/25	112,0	18770	250	0,100	0,22	-	-
3x400/35	119,0	21210	250	0,0778	0,24	-	-

NA2XSEYRGbY & AL/XLPE/ SCT/CWS/PVC/RGb/PVC

Standard: TSE K 204 / TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Round Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Round Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	81,0	10220	500	1,20	0,10	-	-
3x35/16	84,0	10835	500	0,868	0,11	-	-
3x50/16	87,0	11480	500	0,641	0,12	166	164
3x70/16	91,0	12430	400	0,443	0,13	204	204
3x95/16	95,0	13535	400	0,320	0,14	244	248
3x120/16	98,0	14455	350	0,253	0,15	278	284
3x150/25	102,0	15410	350	0,206	0,16	312	326
3x185/25	106,0	16610	300	0,164	0,17	343	374
3x240/25	112,0	18465	300	0,125	0,19	398	440
3x300/25	116,0	20080	250	0,100	0,20	-	-
3x400/35	124,0	22585	250	0,0778	0,22	-	-

NA2XSY & AL/XLPE/SCT/ CWS/PET/PVC & YAXC7V-R

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Tape
		8-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	22,0	530	1000	1,20	0,19	-	-
1x35/16	23,0	575	1000	0,868	0,21	155	170
1x50/16	24,0	635	1000	0,641	0,23	194	215
1x70/16	26,0	725	1000	0,443	0,26	236	269
1x95/16	28,0	830	1000	0,320	0,30	281	327
1x120/16	29,0	930	1000	0,253	0,32	318	377
1x150/25	30,0	1125	1000	0,206	0,35	350	424
1x185/25	32,0	1265	1000	0,164	0,38	393	485
1x240/25	34,0	1485	1000	0,125	0,43	453	573
1x300/25	37,0	1710	1000	0,100	0,47	507	652
1x400/35	40,0	2120	1000	0,0778	0,52	559	741

NA2XSY & AL/XLPE/SCT/ CWS/PET/PVC & YAXC7V-R

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Tape
		8-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

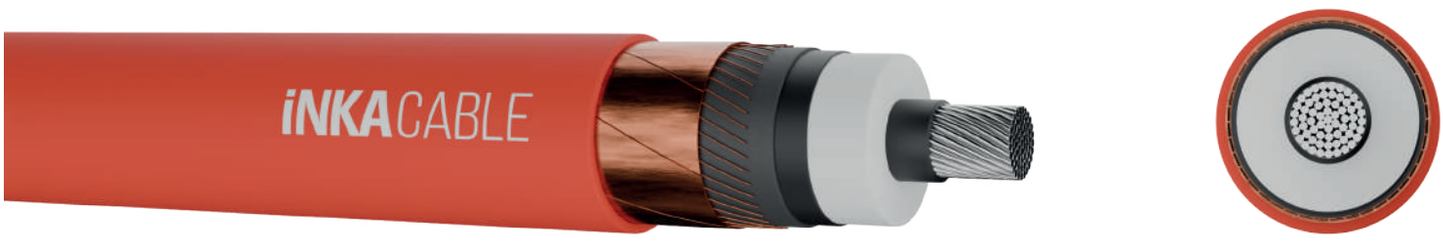
These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	26,0	673	1000	1,20	0,14	-	-
1x35/16	27,0	720	1000	0,868	0,15	158	172
1x50/16	28,0	790	1000	0,641	0,16	195	217
1x70/16	29,0	895	1000	0,443	0,18	237	270
1x95/16	31,0	1025	1000	0,320	0,20	282	328
1x120/16	33,0	1140	1000	0,253	0,22	320	378
1x150/25	34,0	1340	1000	0,206	0,24	353	425
1x185/25	36,0	1495	1000	0,164	0,26	396	485
1x240/25	39,0	1735	1000	0,125	0,29	457	573
1x300/25	41,0	1970	1000	0,100	0,31	511	652
1x400/35	44,0	2410	1000	0,0778	0,35	566	740

NA2XSY & AL/XLPE/SCT/ CWS/PET/PVC & YAXC7V-R

Standard: TSE K 204 / TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV



Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Tape
		8-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	31,0	910	1000	1,20	0,11	-	-
1x35/16	32,0	975	1000	0,868	0,12	-	-
1x50/16	33,0	1055	1000	0,641	0,13	196	217
1x70/16	35,0	1180	1000	0,443	0,14	238	270
1x95/16	37,0	1325	1000	0,320	0,16	284	328
1x120/16	38,0	1450	1000	0,253	0,17	322	378
1x150/25	40,0	1665	1000	0,206	0,18	355	425
1x185/25	42,0	1840	1000	0,164	0,19	400	485
1x240/25	44,0	2100	1000	0,125	0,21	461	572
1x300/25	46,0	2355	1000	0,100	0,23	516	649
1x400/35	50,0	2820	1000	0,0778	0,26	572	737

NA2XSY & AL/XLPE/SCT/ CWS/PET/PVC & YAXC7V-R

Standard: TSE K 204 \ TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Aluminum Conductor / XLPE insulated / Copper Screen / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Aluminium (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-PE Tape
		8-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	33,0	1015	1000	1,20	0,10	-	-
1x35/16	34,0	1085	1000	0,868	0,11	-	-
1x50/16	35,0	1170	1000	0,641	0,12	196	217
1x70/16	37,0	1295	1000	0,443	0,13	238	270
1x95/16	39,0	1450	1000	0,320	0,14	284	328
1x120/16	40,0	1580	1000	0,253	0,16	322	378
1x150/25	42,0	1800	1000	0,206	0,17	355	425
1x185/25	44,0	1980	1000	0,164	0,18	400	485
1x240/25	46,0	2250	1000	0,125	0,20	461	572
1x300/25	48,0	2510	1000	0,100	0,21	516	649
1x400/35	52,0	2990	1000	0,0778	0,23	572	737


CABLE FACTORY NEGOTINO - FKN
INTEKAR GLOBAL

N2X(FL)2Y & CU/XLPE/ SCWBT/ALT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Semicontuctive Waterblocking Tape / Copolymer-Coated Aluminium Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data	
Core temperature, max.	90 °C in Operation
Max. Short Circuit Temperature	250 °C / 5 sec.
Bending Radius, min.	15 x D cable
Max. Permessble Tensile	50 N/mm^2

Cable Structure
1-Circular compacted Copper (Class 2 IEC 60228)
2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
3-XLPE Insulation
4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
5-Semi conductive Waterblocking Tape
6-Copolymer-Coated Aluminium Tape
7-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	22,0	535	1000	0,727	0,19	179	191
1x35/16	23,0	635	1000	0,524	0,21	212	231
1x50/16	24,0	770	1000	0,387	0,23	249	277
1x70/16	26,0	990	1000	0,268	0,26	303	345
1x95/16	27,0	1250	1000	0,193	0,30	358	418
1x120/16	29,0	1510	1000	0,153	0,32	404	481
1x150/25	30,0	1770	1000	0,124	0,35	441	537
1x185/25	32,0	2135	1000	0,0991	0,38	493	612
1x240/25	35,0	2710	1000	0,0754	0,43	563	716
1x300/25	37,0	3300	1000	0,0601	0,47	626	811
1x400/35	40,0	4135	1000	0,0470	0,52	676	901

N2X(FL)2Y & CU/XLPE/ SCWBT/ALT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Semicontuctive Waterblocking Tape / Copolymer-Coated Aluminium Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV



Technical Data	
Core temperature, max.	90 °C in Operation
Max. Short Circuit Temperature	250 °C / 5 sec.
Bending Radius, min.	15 x D cable
Max. Permessble Tensile	50 N/mm^2

Cable Structure
1-Circular compacted Copper (Class 2 IEC 60228)
2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
3-XLPE Insulation
4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
5-Semi conductive Waterblocking Tape
6-Copolymer-Coated Aluminium Tape
7-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	26,0	685	1000	0,727	0,14	-	-
1x35/16	27,0	790	1000	0,524	0,15	213	233
1x50/16	28,0	935	1000	0,387	0,16	250	279
1x70/16	30,0	1165	1000	0,268	0,18	304	347
1x95/16	32,0	1450	1000	0,193	0,20	361	420
1x120/16	33,0	1715	1000	0,153	0,21	407	483
1x150/25	35,0	1990	1000	0,124	0,24	445	540
1x185/25	37,0	2365	1000	0,0991	0,26	498	614
1x240/25	39,0	2955	1000	0,0754	0,29	569	718
1x300/25	41,0	3560	1000	0,0601	0,31	633	813
1x400/35	45,0	4420	1000	0,0470	0,35	686	904

N2X(FL)2Y & CU/XLPE/ SCWBT/ALT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Semicontuctive Waterblocking Tape / Copolymer-Coated Aluminium Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data	
Core temperature, max.	90 °C in Operation
Max. Short Circuit Temperature	250 °C / 5 sec.
Bending Radius, min.	15 x D cable
Max. Permessble Tensile	50 N/mm^2

Cable Structure
1-Circular compacted Copper (Class 2 IEC 60228)
2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
3-XLPE Insulation
4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
5-Semi conductive Waterblocking Tape
6-Copolymer-Coated Aluminium Tape
7-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	31,0	895	1000	0,727	0,11	-	-
1x35/16	32,0	1015	1000	0,524	0,12	214	233
1x50/16	34,0	1170	1000	0,387	0,13	251	279
1x70/16	35,0	1415	1000	0,268	0,14	306	348
1x95/16	37,0	1710	1000	0,193	0,16	363	421
1x120/16	39,0	1990	1000	0,153	0,17	410	483
1x150/25	40,0	2275	1000	0,124	0,18	449	540
1x185/25	42,0	2665	1000	0,0991	1,19	503	615
1x240/25	44,0	3270	1000	0,0754	0,21	576	718
1x300/25	47,0	3895	1000	0,0601	0,23	641	812
1x400/35	50,0	4775	1000	0,0470	0,26	697	904

N2X(FL)2Y & CU/XLPE/ SCWBT/ALT/PE

Standard: TSE K 204 / TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Semicontuctive Waterblocking Tape / Copolymer-Coated Aluminium Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV



Technical Data	
Core temperature, max.	90 °C in Operation
Max. Short Circuit Temperature	250 °C / 5 sec.
Bending Radius, min.	15 x D cable
Max. Permessble Tensile	30 N/mm^2

Cable Structure
1-Circular compacted Copper (Class 2 IEC 60228)
2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
3-XLPE Insulation
4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
5-Semi conductive Waterblocking Tape
6-Copolymer-Coated Aluminium Tape
7-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	33,0	995	1000	0,727	0,10	-	-
1x35/16	34,0	1115	1000	0,524	0,11	214	233
1x50/16	35,0	1275	1000	0,387	0,12	251	279
1x70/16	37,0	1525	1000	0,268	0,13	306	348
1x95/16	39,0	1825	1000	0,193	0,14	363	421
1x120/16	41,0	2110	1000	0,153	0,16	410	483
1x150/25	42,0	2400	1000	0,124	0,17	449	540
1x185/25	44,0	2795	1000	0,0991	0,18	503	615
1x240/25	46,0	3410	1000	0,0754	0,2	576	718
1x300/25	49,0	4040	1000	0,0601	0,21	641	812
1x400/35	52,0	4935	1000	0,0470	0,23	697	904

N2XS(F)2Y & CU/XLPE/ SCWBT/CWS/WBT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2 / BS 7870

Copper Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-Non-conductive swellable Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	24,0	645	1000	0,727	0,19	179	191
1x35/16	25,0	745	1000	0,524	0,21	212	231
1x50/16	26,0	880	1000	0,387	0,23	249	277
1x70/16	28,0	1090	1000	0,268	0,26	303	345
1x95/16	30,0	1350	1000	0,193	0,30	358	418
1x120/16	31,0	1600	1000	0,153	0,32	404	481
1x150/25	33,0	1940	1000	0,124	0,35	441	537
1x185/25	34,0	2300	1000	0,0991	0,38	493	612
1x240/25	35,0	2860	1000	0,0754	0,43	563	716
1x300/25	39,0	3460	1000	0,0601	0,47	626	811
1x400/35	42,0	4380	1000	0,0470	0,52	676	901

N2XS(F)2Y & CU/XLPE/ SCWBT/CWS/WBT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-Non-conductive swellable Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	28,0	780	1000	0,727	0,14	-	-
1x35/16	29,0	885	1000	0,524	0,15	213	233
1x50/16	31,0	1025	1000	0,387	0,16	250	279
1x70/16	32,0	1255	1000	0,268	0,18	304	347
1x95/16	34,0	1530	1000	0,193	0,20	361	420
1x120/16	36,0	1795	1000	0,153	0,22	407	483
1x150/25	37,0	2145	1000	0,124	0,24	445	540
1x185/25	39,0	2520	1000	0,0991	0,26	498	614
1x240/25	41,0	3105	1000	0,0754	0,29	569	718
1x300/25	44,0	3705	1000	0,0601	0,31	633	813
1x400/35	47,0	4645	1000	0,0470	0,35	686	904

N2XS(F)2Y & CU/XLPE/ SCWBT/CWS/WBT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-Non-conductive swellable Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	34,0	985	1000	0,727	0,11	-	-
1x35/16	35,0	1100	1000	0,524	0,12	214	233
1x50/16	36,0	1255	1000	0,387	0,13	251	279
1x70/16	38,0	1495	1000	0,268	0,14	306	348
1x95/16	40,0	1790	1000	0,193	0,16	363	421
1x120/16	41,0	2065	1000	0,153	0,17	410	483
1x150/25	43,0	2425	1000	0,124	0,18	449	540
1x185/25	44,0	2810	1000	0,0991	0,19	503	615
1x240/25	47,0	3410	1000	0,0754	0,21	576	718
1x300/25	49,0	4030	1000	0,0601	0,23	641	812
1x400/35	52,0	5000	1000	0,0470	0,26	697	904

N2XS(F)2Y & CU/XLPE/ SCWBT/CWS/WBT/PE

Standard: TSE K 204 \ TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	30 N/mm^2	7-Non-conductive swellable Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2 & TSE K 204)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	36,0	1080	1000	0,727	0,10	-	-
1x35/16	37,0	1200	1000	0,524	0,11	214	233
1x50/16	38,0	1355	1000	0,387	0,12	251	279
1x70/16	40,0	1605	1000	0,268	0,13	306	348
1x95/16	42,0	1900	1000	0,193	0,14	363	421
1x120/16	43,0	2180	1000	0,153	0,16	410	483
1x150/25	45,0	2550	1000	0,124	0,17	449	540
1x185/25	47,0	2940	1000	0,0991	0,18	503	615
1x240/25	49,0	3550	1000	0,0754	0,2	576	718
1x300/25	51,0	4180	1000	0,0601	0,21	641	812
1x400/35	55,0	5155	1000	0,0470	0,23	697	904



N2XS(F)2YY & CU/XLPE/ SCWBT/CWS/WBT/PE/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2 / BS 7870

Copper Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Inner Sheath / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-Non-conductive swellable Tape
		8-PE Inner Sheath (ST 7 IEC 60502-2)
		9-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	27,0	830	1000	0,727	0,19	179	191
1x35/16	28,0	945	1000	0,524	0,21	212	231
1x50/16	29,0	1070	1000	0,387	0,23	249	277
1x70/16	30,0	1305	1000	0,268	0,26	303	345
1x95/16	32,0	1590	1000	0,193	0,30	358	418
1x120/16	34,0	1860	1000	0,153	0,32	404	481
1x150/25	35,0	2220	1000	0,124	0,35	441	537
1x185/25	37,0	2600	1000	0,0991	0,38	493	612
1x240/25	40,0	3210	1000	0,0754	0,43	563	706
1x300/25	42,0	3830	1000	0,0601	0,47	626	811
1x400/35	45,0	4795	1000	0,0470	0,52	676	901

N2XS(F)2YY & CU/XLPE/ SCWBT/CWS/WBT/PE/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2 / BS 7870

Copper Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Inner Sheath / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-Non-conductive swellable Tape
		8-PE Inner Sheath (ST 7 IEC 60502-2)
		9-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	31,0	1020	1000	0,727	0,14	-	-
1x35/16	32,0	1140	1000	0,524	0,15	213	233
1x50/16	33,0	1280	1000	0,387	0,16	250	279
1x70/16	35,0	1530	1000	0,268	0,18	304	347
1x95/16	37,0	1830	1000	0,193	0,20	361	420
1x120/16	38,0	2115	1000	0,153	0,22	407	483
1x150/25	40,0	2485	1000	0,124	0,24	445	540
1x185/25	42,0	2885	1000	0,0991	0,26	498	614
1x240/25	44,0	3500	1000	0,0754	0,29	569	718
1x300/25	47,0	4140	1000	0,0601	0,31	633	813
1x400/35	50,0	5130	1000	0,0470	0,35	686	904

N2XS(F)2YY & CU/XLPE/ SCWBT/CWS/WBT/PE/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2 / BS 7870

Copper Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Inner Sheath / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-Non-conductive swellable Tape
		8-PE Inner Sheath (ST 7 IEC 60502-2)
		9-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	36,0	1290	1000	0,727	0,11	-	-
1x35/16	37,0	1420	1000	0,524	0,12	214	233
1x50/16	38,0	1580	1000	0,387	0,13	251	279
1x70/16	40,0	1845	1000	0,268	0,14	306	348
1x95/16	42,0	2160	1000	0,193	0,16	363	421
1x120/16	44,0	2455	1000	0,153	0,17	410	483
1x150/25	45,0	2845	1000	0,124	0,18	449	540
1x185/25	47,0	3255	1000	0,0991	0,19	503	615
1x240/25	50,0	3895	1000	0,0754	0,21	576	718
1x300/25	52,0	4555	1000	0,0601	0,23	641	812
1x400/35	55,0	5580	1000	0,0470	0,26	697	904

N2XS(F)2YY & CU/XLPE/ SCWBT/CWS/WBT/PE/PVC

Standard: TSEK 204 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2 / BS 7870

Copper Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / PE Inner Sheath / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-Non-conductive swellable Tape
		8-PE Inner Sheath (ST 7 IEC 60502-2)
		9-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	38,0	1400	1000	0,727	0,10	-	-
1x35/16	39,0	1540	1000	0,524	0,11	214	233
1x50/16	41,0	1710	1000	0,387	0,12	251	279
1x70/16	42,0	1980	1000	0,268	0,13	306	348
1x95/16	44,0	2105	1000	0,193	0,14	363	421
1x120/16	46,0	2610	1000	0,153	0,16	410	483
1x150/25	48,0	3000	1000	0,124	0,17	449	540
1x185/25	49,0	3420	1000	0,0991	0,18	503	615
1x240/25	52,0	4070	1000	0,0754	0,20	576	718
1x300/25	54,0	4735	1000	0,0601	0,21	641	812
1x400/35	58,00	5770	500	0,0470	20,3	697	904

N2XS(FL)2Y & CU/XLPE/ SCWBT/CWS/WBT/ALT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / Copolymer-Coated Aluminium Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV



Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-Non-conductive swellable Tape
		8-Copolymer-Coated Aluminium Tape
		9-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	25,0	710	1000	0,727	0,19	179	191
1x35/16	26,0	810	1000	0,524	0,21	212	231
1x50/16	27,0	945	1000	0,387	0,23	249	277
1x70/16	29,0	1160	1000	0,268	0,26	303	345
1x95/16	31,0	1425	1000	0,193	0,30	358	418
1x120/16	32,0	1680	1000	0,153	0,32	404	481
1x150/25	34,0	2025	1000	0,124	0,35	441	537
1x185/25	36,0	2390	1000	0,0991	0,38	493	612
1x240/25	38,0	2965	1000	0,0754	0,43	563	716
1x300/25	40,0	3560	1000	0,0601	0,47	626	811
1x400/35	44,0	4485	1000	0,0470	0,52	676	901

N2XS(FL)2Y & CU/XLPE/ SCWBT/CWS/WBT/ALT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / Copolymer-Coated Aluminium Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-Non-conductive swellable Tape
		8-Copolymer-Coated Aluminium Tape
		9-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	30,0	850	1000	0,727	0,14	-	-
1x35/16	31,0	960	1000	0,524	0,15	213	233
1x50/16	32,0	1105	1000	0,387	0,16	250	279
1x70/16	33,0	1335	1000	0,268	0,18	304	347
1x95/16	35,0	1620	1000	0,193	0,20	361	420
1x120/16	37,0	1885	1000	0,153	0,22	407	483
1x150/25	38,0	2240	1000	0,124	0,24	445	540
1x185/25	40,0	2615	1000	0,0991	0,26	498	614
1x240/25	43,0	3205	1000	0,0754	0,29	569	718
1x300/25	45,0	3810	1000	0,0601	0,31	633	813
1x400/35	48,0	4760	1000	0,0470	0,35	686	904

N2XS(FL)2Y & CU/XLPE/ SCWBT/CWS/WBT/ALT/PE

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / Copolymer-Coated Aluminium Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-Non-conductive swellable Tape
		8-Copolymer-Coated Aluminium Tape
		9-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	35,0	1070	1000	0,727	0,11	-	-
1x35/16	36,0	1190	1000	0,524	0,12	214	233
1x50/16	37,0	1345	1000	0,387	0,13	251	279
1x70/16	39,0	1590	1000	0,268	0,14	306	348
1x95/16	41,0	1890	1000	0,193	0,16	363	421
1x120/16	42,0	2165	1000	0,153	0,17	410	483
1x150/25	44,0	2530	1000	0,124	0,18	449	540
1x185/25	46,0	2925	1000	0,0991	0,19	503	615
1x240/25	48,0	3535	1000	0,0754	0,21	576	718
1x300/25	50,0	4160	1000	0,0601	0,23	641	812
1x400/35	53,0	5130	1000	0,0470	0,26	697	904

N2XS(FL)2Y & CU/XLPE/ SCWBT/CWS/WBT/ALT/PE

Standard: TSE K 204 / TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Waterblocking Tape / Copolymer-Coated Aluminium Tape / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Waterblocking Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-Non-conductive swellable Tape
		8-Copolymer-Coated Aluminium Tape
		9-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts. In case the cable gets water; barriers (swelling tape) act as a retainer, preventing the water from progressing.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	37,0	1170	1000	0,727	0,10	-	-
1x35/16	38,0	1290	1000	0,524	0,11	214	233
1x50/16	39,0	1450	1000	0,387	0,12	251	279
1x70/16	41,0	1700	1000	0,268	0,13	306	348
1x95/16	43,0	2005	1000	0,193	0,15	363	421
1x120/16	44,0	2290	1000	0,153	0,16	410	483
1x150/25	46,0	2660	1000	0,124	0,17	449	540
1x185/25	48,0	3055	1000	0,0991	0,18	503	615
1x240/25	50,0	3670	1000	0,0754	0,2	576	718
1x300/25	52,0	4305	1000	0,0601	0,21	641	812
1x400/35	56,0	5290	1000	0,0470	0,23	697	904

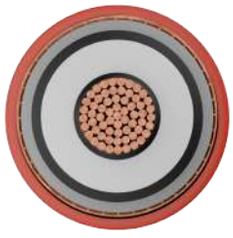


N2XS2Y & CU/XLPE/SCT/ CWS/PET/PE & YAXC7E-R

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

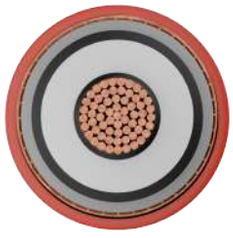
DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	22,0	625	1000	0,727	0,19	179	191
1x35/16	23,0	725	1000	0,524	0,21	212	231
1x50/16	24,0	855	1000	0,387	0,23	249	277
1x70/16	25,0	1070	1000	0,268	0,26	303	345
1x95/16	27,0	1295	1000	0,193	0,30	358	418
1x120/16	28,0	1545	1000	0,153	0,32	404	481
1x150/25	30,0	1875	1000	0,124	0,35	441	537
1x185/25	32,0	2230	1000	0,0991	0,38	493	612
1x240/25	34,0	2785	1000	0,0754	0,43	563	716
1x300/25	36,0	3355	1000	0,0601	0,47	626	811
1x400/35	39,0	4255	1000	0,0470	0,52	676	901

N2XS2Y & CU/XLPE/SCT/ CWS/PET/PE & YAXC7E-R

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

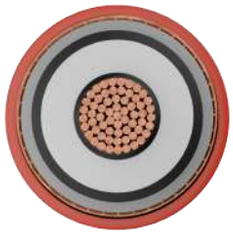
DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	26,0	760	1000	0,727	0,14	-	-
1x35/16	27,0	860	1000	0,524	0,15	213	233
1x50/16	28,0	1005	1000	0,387	0,16	250	279
1x70/16	29,0	1230	1000	0,268	0,18	304	347
1x95/16	31,0	1510	1000	0,193	0,20	361	420
1x120/16	33,0	1770	1000	0,153	0,22	407	483
1x150/25	34,0	2120	1000	0,124	0,24	445	540
1x185/25	36,0	2490	1000	0,0991	0,26	498	614
1x240/25	39,0	3070	1000	0,0754	0,29	569	718
1x300/25	41,0	3675	1000	0,0601	0,31	633	813
1x400/35	44,0	4610	1000	0,0470	0,356	686	904

N2XS2Y & CU/XLPE/SCT/ CWS/PET/PE & YAXC7E-R

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

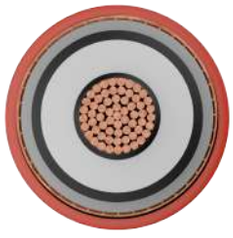
DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	31,0	980	1000	0,727	0,11	-	-
1x35/16	32,0	1095	1000	0,524	0,12	214	233
1x50/16	33,0	1245	1000	0,387	0,13	251	279
1x70/16	35,0	1490	1000	0,268	0,14	306	348
1x95/16	37,0	1780	1000	0,193	0,16	363	421
1x120/16	38,0	2060	1000	0,153	0,17	410	483
1x150/25	40,0	2420	1000	0,124	0,18	449	540
1x185/25	42,0	2805	1000	0,0991	0,19	503	615
1x240/25	44,0	3410	1000	0,0754	0,21	576	718
1x300/25	46,0	4030	1000	0,0601	0,23	641	812
1x400/35	50,0	4995	1000	0,0470	0,26	697	904

N2XS2Y & CU/XLPE/SCT/ CWS/PET/PE & YAXC7E-R

Standard:TSE K 204 \ TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / PE Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Tape
		8-PE Outer Sheath (ST 7 IEC 60502-2 & TSE K 204)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

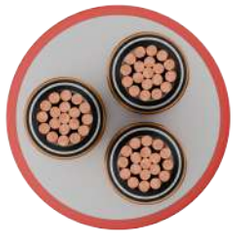
DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	33,0	1075	1000	0,727	0,10	-	-
1x35/16	34,0	1195	1000	0,524	0,11	214	233
1x50/16	35,0	1350	1000	0,387	0,12	251	279
1x70/16	37,0	1595	1000	0,268	0,13	306	348
1x95/16	39,0	1895	1000	0,193	0,14	363	421
1x120/16	40,0	2175	1000	0,153	0,16	410	483
1x150/25	42,0	2545	1000	0,124	0,17	449	540
1x185/25	44,0	2935	1000	0,0991	0,18	503	615
1x240/25	46,0	3545	1000	0,0754	0,20	576	718
1x300/25	48,0	4175	1000	0,0601	0,21	641	812
1x400/35	57,0	5150	1000	0,0470	0,23	697	904

N2XSEY & CU/XLPE/ SCT/CWS/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

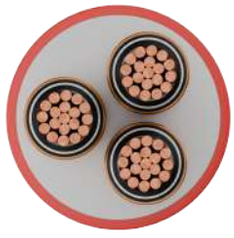
DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	43,0	2570	1000	0,727	0,17	148	143
3x35/16	46,0	3030	1000	0,524	0,19	178	173
3x50/16	48,0	3570	1000	0,387	0,21	210	206
3x70/16	52,0	4420	1000	0,268	0,23	256	257
3x95/16	57,0	5515	1000	0,193	0,26	307	313
3x120/16	60,0	6480	500	0,153	0,28	349	360
3x150/25	63,0	7470	500	0,124	0,31	392	410
3x185/25	67,0	8825	500	0,0991	0,33	443	469
3x240/25	73,0	10990	500	0,0754	0,37	513	553
3x300/25	77,0	13110	400	0,0601	0,40	576	635
3x400/35	85,0	16210	350	0,0470	0,45	650	731

N2XSEY & CU/XLPE/ SCT/CWS/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

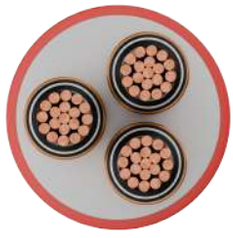
DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	53,0	3575	1000	0,727	0,13	-	-
3x35/16	56,0	4080	1000	0,524	0,14	183	182
3x50/16	59,0	4675	1000	0,387	0,15	216	217
3x70/16	62,0	5595	500	0,268	0,17	264	269
3x95/16	66,0	6710	500	0,193	0,19	316	326
3x120/16	70,0	7735	500	0,153	0,21	360	377
3x150/25	73,0	8860	500	0,124	0,22	404	426
3x185/25	77,0	10285	500	0,0991	0,24	457	488
3x240/25	83,0	12480	400	0,0754	0,26	532	576
3x300/25	87,0	14685	350	0,0601	0,28	599	654
3x400/35	95,0	18010	300	0,0470	0,32	685	750

N2XSEY & CU/XLPE/ SCT/CWS/PVC

Standard:TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

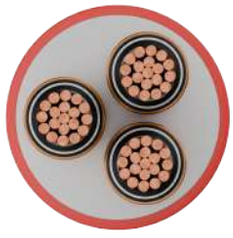
DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	66,0	5070	1000	0,727	0,11	-	-
3x35/16	68,0	5570	1000	0,524	0,12	-	-
3x50/16	70,0	6220	500	0,387	0,12	214	217
3x70/16	74,0	7295	500	0,268	0,14	261	269
3x95/16	78,0	8515	500	0,193	0,15	313	326
3x120/16	82,0	9615	500	0,153	0,16	356	377
3x150/25	85,0	10740	500	0,124	0,17	400	426
3x185/25	89,0	12260	400	0,0991	0,18	441	488
3x240/25	94,0	14575	350	0,0754	0,2	510	576
3x300/25	99,0	16990	300	0,0601	0,22	-	-
3x400/35	106,0	20390	250	0,0470	0,24	-	-

N2XSEY & CU/XLPE/ SCT/CWS/PVC

Standard: TSE K 204 / TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	70,0	5690	500	0,727	0,10	-	-
3x35/16	73,0	6280	500	0,524	0,11	-	-
3x50/16	75,0	6960	500	0,387	0,11	214	217
3x70/16	79,0	8000	500	0,268	0,13	261	269
3x95/16	83,0	9250	500	0,193	0,14	318	326
3x120/16	86,0	10390	500	0,153	0,15	356	377
3x150/25	89,0	11540	500	0,124	0,16	400	426
3x185/25	93,0	13090	400	0,0991	0,17	441	488
3x240/25	99,0	15560	350	0,0754	0,19	510	576
3x300/25	104,0	17900	300	0,0601	0,20	-	-
3x400/35	111,0	21380	250	0,0470	0,22	-	-



N2XSEYBY & CU/XLPE/SCT/ CWS/PVC/DST/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Douple Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Douple Steel Tape Armour
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	48,0	3410	1000	0,727	0,17	148	143
3x35/16	51,0	3880	1000	0,524	0,19	178	173
3x50/16	54,0	4470	1000	0,387	0,21	210	206
3x70/16	57,0	5410	500	0,268	0,23	256	257
3x95/16	62,0	6610	500	0,193	0,26	307	313
3x120/16	65,0	7650	500	0,153	0,28	349	360
3x150/25	69,0	8720	500	0,124	0,31	392	410
3x185/25	73,0	10170	500	0,0991	0,33	443	469
3x240/25	79,0	12480	400	0,0754	0,37	513	553
3x300/25	84,0	14725	350	0,0601	0,40	576	635
3x400/35	92,0	18660	300	0,0470	0,45	650	731

N2XSEYBY & CU/XLPE/SCT/ CWS/PVC/DST/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Douple Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Douple Steel Tape Armour
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	59,0	4650	1000	0,727	0,13	-	-
3x35/16	61,0	5220	1000	0,524	0,14	183	182
3x50/16	64,0	5880	500	0,387	0,15	216	217
3x70/16	68,0	6890	500	0,268	0,17	264	269
3x95/16	72,0	8120	500	0,193	0,19	316	326
3x120/16	76,0	9230	500	0,153	0,21	360	377
3x150/25	79,0	10450	500	0,124	0,22	404	426
3x185/25	83,0	11985	400	0,0991	0,24	457	488
3x240/25	90,0	14980	350	0,0754	0,26	532	576
3x300/25	95,0	17350	300	0,0601	0,28	599	654
3x400/35	103,0	20970	250	0,0470	0,32	685	750

N2XSEYBY & CU/XLPE/SCT/ CWS/PVC/DST/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Douple Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Douple Steel Tape Armour
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	71,0	6445	500	0,73	0,11	-	-
3x35/16	74,0	7005	500	0,524	0,12	-	-
3x50/16	76,0	7730	500	0,387	0,12	214	217
3x70/16	80,0	8915	500	0,268	0,14	261	269
3x95/16	86,0	10860	500	0,193	0,15	313	326
3x120/16	89,0	12080	400	0,153	0,16	356	377
3x150/25	93,0	13330	400	0,124	0,17	400	426
3x185/25	97,0	14990	350	0,0991	0,18	441	488
3x240/25	102,0	17515	300	0,0754	0,2	510	576
3x300/25	107,0	20120	250	0,0601	0,22	575	655
3x400/35	115,0	23815	200	0,0470	0,24	655	760

N2XSEYBY & CU/XLPE/SCT/ CWS/PVC/DST/PVC

Standard: TSE K 204 / TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Douple Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Douple Steel Tape Armour
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

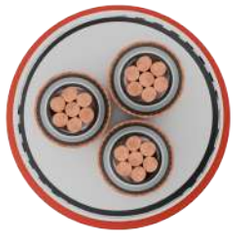
DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	76,0	7195	500	0,727	0,10	-	-
3x35/16	79,0	7860	500	0,524	0,11	-	-
3x50/16	81,0	8610	500	0,387	0,11	214	217
3x70/16	86,0	10370	500	0,268	0,13	261	269
3x95/16	91,0	11775	400	0,193	0,14	318	326
3x120/16	94,0	13025	400	0,153	0,15	356	377
3x150/25	98,0	14305	350	0,124	0,16	400	426
3x185/25	102,0	16005	350	0,099	0,17	441	488
3x240/25	107,0	18690	300	0,075	0,19	510	576
3x300/25	112,0	21235	250	0,0601	0,20	-	-
3x400/35	120,0	24995	200	0,0470	0,22	-	-

N2XSEYFGbY & CU/XLPE/ SCT/CWS/PVC/FGb/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Flat Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Flat Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

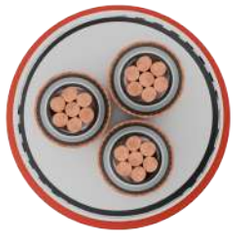
DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	48,0	3805	1000	0,727	0,17	148	143
3x35/16	51,0	4350	1000	0,524	0,19	178	173
3x50/16	54,0	4975	1000	0,387	0,21	210	206
3x70/16	58,0	5960	500	0,268	0,23	256	257
3x95/16	62,0	7195	500	0,193	0,26	307	313
3x120/16	66,0	8285	500	0,153	0,28	349	360
3x150/25	69,0	9380	500	0,124	0,31	392	410
3x185/25	73,0	10875	500	0,0991	0,33	443	469
3x240/25	79,0	13265	400	0,0754	0,37	513	553
3x300/25	84,0	15545	350	0,0601	0,40	576	635
3x400/35	91,0	18940	250	0,0470	0,45	650	731

N2XSEYFGbY & CU/XLPE/ SCT/CWS/PVC/FGb/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Flat Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Flat Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

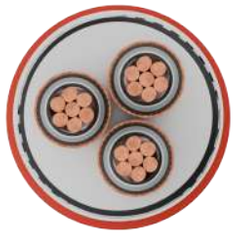
DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	59,0	5150	1000	0,727	0,13	-	-
3x35/16	62,0	5750	500	0,524	0,14	183	182
3x50/16	64,0	6435	500	0,387	0,15	216	217
3x70/16	68,0	7490	500	0,268	0,17	264	269
3x95/16	72,0	8752	500	0,193	0,19	316	326
3x120/16	76,0	9880	500	0,153	0,21	360	377
3x150/25	80,0	11145	500	0,124	0,22	404	426
3x185/25	84,0	12720	400	0,0991	0,24	457	488
3x240/25	94,0	15120	350	0,0754	0,26	532	576
3x300/25	84,0	17525	300	0,0601	0,28	599	654
3x400/35	102,0	21135	250	0,0470	0,32	685	750

N2XSEYFGbY & CU/XLPE/ SCT/CWS/PVC/FGb/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Flat Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Flat Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

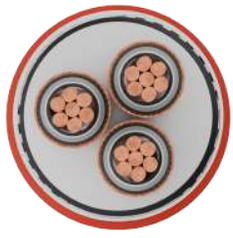
DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	71,0	7065	500	0,727	0,11	-	-
3x35/16	74,0	4655	500	0,524	0,12	-	-
3x50/16	76,0	8405	500	0,387	0,12	214	217
3x70/16	81,0	9630	500	0,268	0,14	261	269
3x95/16	85,0	11000	500	0,193	0,15	313	326
3x120/16	88,0	12215	400	0,153	0,16	356	377
3x150/25	92,0	13480	400	0,124	0,17	400	426
3x185/25	96,0	15155	350	0,0991	0,18	441	488
3x240/25	101,0	17685	300	0,0754	0,2	510	576
3x300/25	106,0	20310	250	0,0601	0,22	575	655
3x400/35	114,0	24010	200	0,0470	0,24	655	760

N2XSEYFGbY & CU/XLPE/ SCT/CWS/PVC/FGb/PVC

Standard: TSE K 204 / TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Flat Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Flat Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	76,0	7875	500	0,727	0,10	-	-
3x35/16	79,0	8540	500	0,524	0,11	-	-
3x50/16	82,0	9315	500	0,387	0,11	214	217
3x70/16	85,0	10500	500	0,268	0,12	261	269
3x95/16	90,0	11910	400	0,193	0,14	318	326
3x120/16	93,0	13180	400	0,153	0,15	356	377
3x150/25	96,0	14455	350	0,124	0,16	400	426
3x185/25	100,0	16165	350	0,0991	0,17	441	488
3x240/25	106,0	18875	300	0,0754	0,19	510	576
3x300/25	111,0	21420	250	0,0601	0,20	-	-
3x400/35	119,0	25210	200	0,0470	0,22	-	-

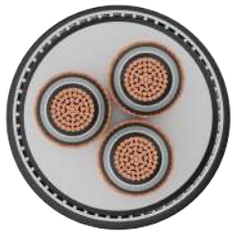


N2XSEYRGbY & CU/XLPE/ SCT/CWS/PVC/RGb/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Round Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Round Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

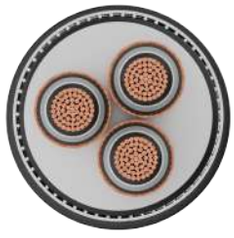
DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	52,0	5030	1000	0,727	0,17	148	140
3x35/16	55,0	5640	1000	0,524	0,19	178	173
3x50/16	57,0	6335	500	0,387	0,21	210	206
3x70/16	61,0	7420	500	0,268	0,23	256	257
3x95/16	66,0	8790	500	0,193	0,26	307	313
3x120/16	69,0	9955	500	0,153	0,28	349	360
3x150/25	73,0	11155	500	0,124	0,31	392	410
3x185/25	77,0	12755	400	0,0991	0,33	443	469
3x240/25	84,0	16165	350	0,0754	0,37	513	553
3x300/25	89,0	18645	300	0,0601	0,40	576	635
3x400/35	96,0	22305	250	0,0470	0,45	650	731

N2XSEYRGbY & CU/XLPE/ SCT/CWS/PVC/RGb/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Round Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Round Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

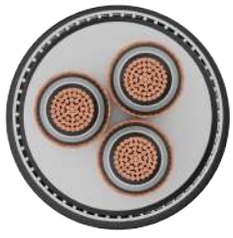
DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	63,0	6650	500	0,727	0,13	-	-
3x35/16	65,0	7315	500	0,524	0,14	183	182
3x50/16	68,0	8070	500	0,387	0,15	216	217
3x70/16	72,0	9220	500	0,268	0,17	264	269
3x95/16	76,0	10600	500	0,193	0,19	316	326
3x120/16	81,0	12675	400	0,153	0,21	360	377
3x150/25	85,0	14075	400	0,124	0,22	404	426
3x185/25	89,0	15800	350	0,0991	0,24	457	488
3x240/25	94,0	18415	300	0,0754	0,26	532	576
3x300/25	99,0	20990	250	0,0601	0,28	599	654
3x400/35	107,0	24920	200	0,0470	0,32	685	750

N2XSEYRGbY & CU/XLPE/ SCT/CWS/PVC/RGb/PVC

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Round Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90°C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250°C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Round Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

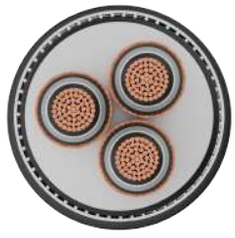
DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	75,0	8835	500	0,727	0,11	-	-
3x35/16	79,0	10290	500	0,524	0,12	-	-
3x50/16	81,0	11140	500	0,387	0,12	214	217
3x70/16	86,0	12525	400	0,268	0,14	261	269
3x95/16	90,0	14055	400	0,193	0,15	313	326
3x120/16	93,0	15405	350	0,153	0,16	356	377
3x150/25	97,0	16790	300	0,124	0,17	400	426
3x185/25	101,0	18610	300	0,0991	0,18	441	488
3x240/25	106,0	21350	250	0,0754	0,20	510	576
3x300/25	111,0	24160	200	0,0601	0,22	575	655
3x400/35	119,0	28150	200	0,0470	0,24	655	760

N2XSEYRGbY & CU/XLPE/ SCT/CWS/PVC/RGb/PVC

Standard: TSE K 204 / TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / Filler / PVC Inner Sheath / Round Wires / Steel Tape Armour / PVC Outer Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Filler
		8-PVC Inner Sheath (ST 2 IEC 60502-2)
		9-Round Wires and Steel Tape
		10-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
3x25/16	81,0	10665	500	0,727	0,10	-	-
3x35/16	84,0	11455	400	0,524	0,11	-	-
3x50/16	87,0	12330	400	0,387	0,11	214	217
3x70/16	90,0	13655	400	0,268	0,13	261	269
3x95/16	95,0	15230	350	0,193	0,14	318	326
3x120/16	98,0	16615	300	0,153	0,15	356	377
3x150/25	101,0	18035	300	0,124	0,16	400	426
3x185/25	105,0	19895	250	0,0991	0,17	441	488
3x240/25	111,0	22820	250	0,0754	0,19	510	576
3x300/25	116,0	25560	200	0,0601	0,20	-	-
3x400/35	124,0	29620	200	0,0470	0,22	-	-

N2XSY & CU/XLPE/SCT/CWS/ PET/PVC & YAXC7V-R

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 6 / 10 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Tape
		8-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	22,0	680	1000	0,727	0,19	179	191
1x35/16	23,0	780	1000	0,524	0,21	212	231
1x50/16	24,0	915	1000	0,387	0,23	249	277
1x70/16	25,0	1100	1000	0,268	0,26	303	345
1x95/16	27,0	1390	1000	0,193	0,30	358	418
1x120/16	28,0	1650	1000	0,153	0,32	404	481
1x150/25	30,0	1995	1000	0,124	0,35	441	537
1x185/25	32,0	2360	1000	0,0991	0,38	493	612
1x240/25	34,0	2940	1000	0,0754	0,43	563	716
1x300/25	36,0	3535	1000	0,0601	0,47	626	811
1x400/35	39,0	4465	1000	0,0470	0,52	676	901

N2XSY & CU/XLPE/SCT/CWS/ PET/PVC & YAXC7V-R

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 12 / 20 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Tape
		8-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	26,0	820	1000	0,727	0,14	-	-
1x35/16	27,0	925	1000	0,524	0,15	213	233
1x50/16	28,0	1070	1000	0,387	0,16	250	279
1x70/16	29,0	1305	1000	0,268	0,18	304	347
1x95/16	31,0	1590	1000	0,193	0,20	361	420
1x120/16	33,0	1855	1000	0,153	0,22	407	483
1x150/25	34,0	2215	1000	0,124	0,24	445	540
1x185/25	36,0	2595	1000	0,0991	0,26	498	614
1x240/25	39,0	3190	1000	0,0754	0,29	569	718
1x300/25	41,0	3795	1000	0,0601	0,31	633	813
1x400/35	44,0	4755	1000	0,0470	0,35	686	904

N2XSY & CU/XLPE/SCT/CWS/ PET/PVC & YAXC7V-R

Standard: TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 18 / 30 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Tape
		8-PVC Outer Sheath (ST 2 IEC 60502-2)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	31,0	1060	1000	0,727	0,11	-	-
1x35/16	32,0	1180	1000	0,524	0,12	214	233
1x50/16	33,0	1340	1000	0,387	0,13	251	279
1x70/16	35,0	1590	1000	0,268	0,14	306	348
1x95/16	37,0	1890	1000	0,193	0,16	362	421
1x120/16	38,0	2170	1000	0,153	0,17	410	483
1x150/25	40,0	2540	1000	0,124	0,18	449	540
1x185/25	42,0	2935	1000	0,0991	0,19	503	615
1x240/25	44,0	3550	1000	0,0754	0,21	576	718
1x300/25	46,0	4185	1000	0,0601	0,23	641	812
1x400/35	50,0	5165	1000	0,0470	0,26	697	904

N2XSY & CU/XLPE/SCT/CWS/ PET/PVC & YAXC7V-R

Standard: TSE K 204 \ TS IEC 60502-2 / IEC 60502 – 2 / TS HD 620 S2 / HD 620 S2

Copper Conductor / XLPE insulated / Copper Screen / PVC Sheath
Medium Voltage Energy Cable
Rated Voltage: Uo/U; 20,3 / 35 kV





Technical Data		Cable Structure
Core temperature, max.	90 °C in Operation	1-Circular compacted Copper (Class 2 IEC 60228)
		2-Extruded, semi-conductive conductor screen(Inner semi-conductive Layer)
Max. Short Circuit Temperature	250 °C / 5 sec.	3-XLPE Insulation
		4-Exruded, semi-conductive insulation screen(Outer semi-conductive layer) (Bonded)
Bending Radius, min.	15 x D cable	5-Semi conductive Tape
		6-Screen, Copper Wire & Tape
Max. Permessble Tensile	50 N/mm^2	7-PE Tape
		8-PVC Outer Sheath (ST 2 IEC 60502-2 & TSE K 204)

Application

These cables, which have very low dielectric losses, are used in power centers, switchgear and industrial facilities, in local energy distribution, as power cables in places where there is no risk of mechanical damage (outside, inside), underground or in cable ducts.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Capacitance	Rated current carrying capacity (A)(Flat)	
No x mm^2	mm	kg/km	m	ohm/km	µF/km	Under Ground 20 °C	In Air 30 °C
1x25/16	33,0	1165	1000	0,727	0,10	-	-
1x35/16	34,0	1290	1000	0,524	0,11	214	233
1x50/16	35,0	1450	1000	0,387	0,12	251	279
1x70/16	37,0	1705	1000	0,268	0,13	306	348
1x95/16	39,0	2010	1000	0,193	0,14	363	421
1x120/16	40,0	2295	1000	0,153	0,16	410	483
1x150/25	42,0	2675	1000	0,124	0,17	449	540
1x185/25	44,0	3075	1000	0,0991	0,18	503	615
1x240/25	46,0	3700	1000	0,0754	0,20	576	718
1x300/25	48,0	4340	1000	0,0601	0,21	641	812
1x400/35	52,0	5335	1000	0,0470	0,23	697	904

DESIGNATION CODE FOR POWER CABLES ACCORDING TO DIN VDE 0271/0276

CONSTRUCTION REFERENCE

X

IDENTIFICATION OF DESIGNATION
N – DIN VDE STANDARD
(N) – SIMILAR TO DIN VDE STANDARD

CONDUCTOR MATERIAL
A – ALUMINIUM CONDUCTO
-- COPPER CONDUCTOR

INSULATING MATERIALS
Y – PVC
2X – CROSS-LINKED PE (XLPE)

CONCENTRIC CONDUCTOR (SCREEN)
C – CONCENTRIC CONDUCTOR OF COPPER
CE – CONCENTRIC CONDUCTOR OF COPPER OVER EACH INDIVIDUAL CORE
S – SCREEN OF COPPER WIRES
SE – SCREEN OF COPPER WIRES OVER EACH INDIVIDUAL CORE
H – CONDUCTIVE LAYERS
(F) – LONGITUDINALLY WATER-PROOF SCREEN
(FL) – LONGITUDINALLY AND RADIAL WATER-PROOF SCREEN

ARMOURING
B – STEEL TAPE ARMOURING
R – ARMOUR OF GALVANIZED ROUND STEEL WIRES

SHEATH MATERIAL
Y – PVC
2Y – PE
H – HALOGEN-FREE THERMOPLASTIC POLYMER

PROTECTIVE CONDUCTOR
I – WITH PROTECTIVE CONDUCTOR
O – WITHOUT PROTECTIVE CONDUCTOR

NUMBER OF CORES

CONDUCTOR CROSS SECTION IN MM^2

CONDUCTOR TYPE
R... – CIRCULAR CONDUCTOR .. M STRANDED CONDUCTOR
S... – SECTOR CONDUCTOR /V COMPACT CONDUCTOR
..E... – CIRCULAR, SOLID CONDUCTOR

RATING VOLTAGE
0.6/1 KV
3.6/6 KV
6.0/10 KV
12/20 KV
18/30 KV
20.3/35 KV

EXAMPLES:
NYY-J 4X1.5 RE 0.6/1 KV - VDE 0276-603
CABLE ACCORDING TO STANDARD, PVC-INSULATED, SHEATH PVC, WITH GREEN-YELLOW MARKED CORE, 4 CORES WITH NOMINAL CROSS-SECTION 1.5 MM^2, CIRCULAR CONDUCTOR, SOLID, RATING VOLTAGE 0.6/1 KV.

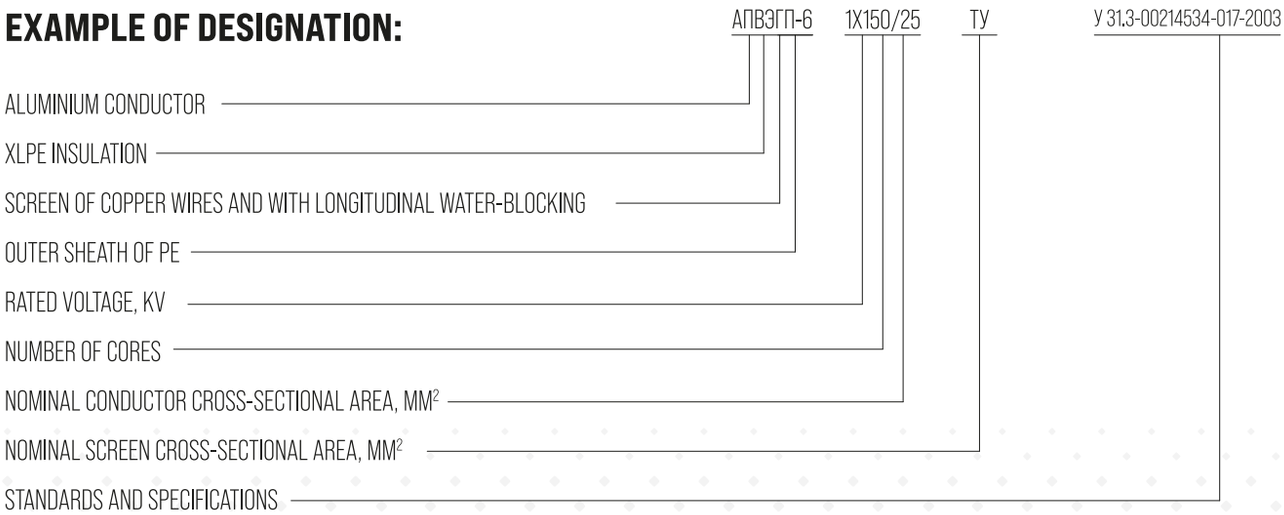
NA2XS2Y 1X35 RM/16 6/10 KV - IEC 60502-2
SINGLE CORE XLPE-INSULATED CABLE WITH PE-SHEATH ACCORDING TO STANDARD, CIRCULAR, STRANDED ALUMINIUM CONDUCTOR WITH NOMINAL CROSS-SECTON 35 MM2, COVERED WITH COPPER-SCREEN 16 MM2 AND RATING VOLTAGE (U0/U) 6/10 KV.

DESIGNATION CODE FOR MEDIUM VOLTAGE CABLES ACCORDING TO ТУ У 31.3-00214534-017-2003, ИЕЦ 60502-2:2005

	Зх	three stranded single-core cables, twisted together
Conductor	А	aluminium conductor
	–	copper conductor (without designation)
Insulation	Пв	insulation of cross-linked polyethylene (XLPE)
Screen	Э	copper screen over each core
	Эо	collective copper screen for three core cables
	Эоа	closure of common screen by aluminopolyethylene band
	г	longitudinal water-blocking of water-swelling tapes
	га	longitudinal and radial water-blocking with water-swelling tapes and aluminium-copolymer bands
Armour	Б	armour of steel strips
	К	armour of steel round wires
	Ак	armour of aluminium round wires
Outer Sheath	П	outer sheath of polyethylene (PE) or polyethylene copolymer
	Пнг (А)*	outer jacket made of polymer composition, prevents spread of fire (category A)
	ПнгHF (А)*	outer jacket of halogen-free polymer composition (category A)
	Пу	reinforced polyethylene (PE) sheath
	В	outer sheath of polyvinylchloride (PVC) compound
	Внг	outer sheath of flame retardant PVC compound
	Внгд	outer sheath of flame retardant, low smoke PVC compound
Climate Conditions	–	UHL variant (without marking)
	Т	tropical variant
	nxS / Sкр	number of cores, nominal cross-section / screen cross-section (mm^2)
	(ож)	single-wire cores

** in other cases the marking of category, corresponding to non-spread of fire is not applied (cable corresponds to B category accordingto IEC 60332-3)*

EXAMPLE OF DESIGNATION:

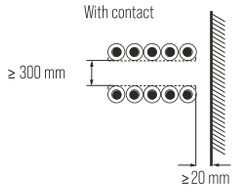
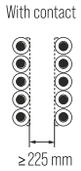
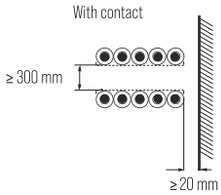
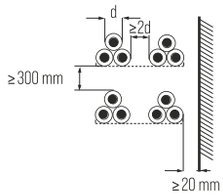
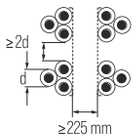
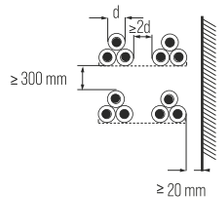


CORRESPONDENCE OF XLPE-INSULATED MEDIUM VOLTAGE POWER CABLES

Ukraine	Russia	Germany	Poland
ПвЭВ	ПвВ	N2XSY, N2XSEY (2XSY, 2XSEY)	YHKXS
ПвЭВнг	ПвВнг	N2XSY, N2XSEY (2XSY, 2XSEY)	YnHKXS
ПвЭгП	ПвПг	N2XS(F)2Y (2XS(F)2Y)	XUHKXS
ПвЭгПу	ПвПуг	N2XS(F)2Y (2XS(F)2Y)	XUHKXS
ПвЭгаП	ПвП2г	N2XS(FL)2Y (2XS(FL)2Y)	XRUHKXS
ПвЭгаПу	ПвПуг2г	N2XS(FL)2Y (2XS(FL)2Y)	XRUHKXS
ПвЭВнгд	ПвВнг-LS		YnHKXS
ПвЭВнг		N2XSY, N2XSEY (2XSY, 2XSEY)	YnUHKXS
ПвЭгаВнг		N2XS(FL)2Y	YnRUHKXS
ПвЭБВ		N2XSEB2Y	
ПвЭБВнг		N2XSEB2Y	
ПвЭБП		N2XSEBY	
ПвЭПнг			XnUHKXSn
ПвЭПнг-HF		N2XS(F)H, N2XSE(F)H	NUHKXSn
ПвЭБПнг-HF		N2XSBH	
ПвЭКПнг-HF		N2XSRH	
With aluminium conductors			
АПвЭВ	АПвВ	NA2XSY, NA2XSEY (A2XSY, A2XSEY)	YHAKXS
АПвЭВнг	АПвВнг	NA2XSY, NA2XSEY (A2XSY, A2XSEY)	YnHAKXS
АПвЭгП	АПвПг	NA2XS(F)2Y (A2XS(F)2Y)	XUHAKXS
АПвЭгПу	АПвПуг	NA2XS(F)2Y (A2XS(F)2Y)	XUHAKXS
АПвЭгаП	АПвП2г	NA2XS(FL)2Y, NA2XS(FL)2Y	XRUHAKXS
АПвЭгаПу	АПвПуг2г	NA2XS(FL)2Y, NA2XS(FL)2Y	XRUHAKXS
АПвЭВнгд		-	YnHAKXS
АПвЭВнг		NA2XSY, NA2XSEY (A2XSY, A2XSEY)	YnUHAKXS
АПвЭгаВнг		NA2XS(FL)2Y	YnRUHAKXS
АПвЭБВ		NA2XSEB2Y	
АПвЭБВнг		NA2XSEB2Y	
АПвЭБП		NA2XSEBY	
АПвЭПнг			XnUHAKXSn
АПвЭПнг-HF		NA2XS(F)H	NUHAKXSn
АПвЭБПнг-HF		NA2XSBH	
АПвЭКПнг-HF		NA2XSRH	

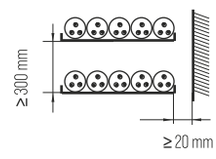
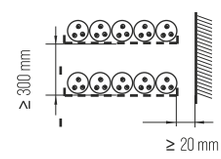
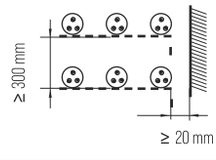
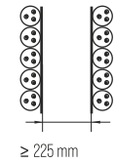
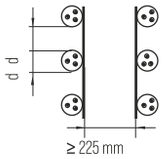
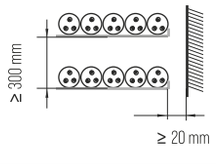
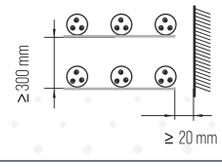
CURRENT RATINGS - CONVERSION FACTORS

FOR GROUPING OF SINGLE CORE CABLES OR CABLES ON TROUGHS AND TRAYS

Number of three-phase systems with single core cables *Installation method*	Used as multiplier for rating value for	Used as multiplier for rating value for	Number of troughs or trays	Coversion factors		Note
Perforated cable troughs		Three-core cable in horizontal arrangement	1	0,98	0,91	0,87
			2	0,96	0,87	0,81
			3	0,95	0,85	0,78
		Three-cores cable in vertical-surface arrangemen	1	0,96	0,86	-
			2	0,95	0,84	-
Cable Trays		Three-core cable in horizontal arrangement	1	11,0	0,97	0,96
			2	0,98	0,93	0,89
			3	0,97	0,90	0,86
Perforated cable troughs			1	1,00	0,98	0,96
			2	0,97	0,93	0,89
			3	0,96	0,92	0,86
		Three-cores cable in vertical-surface triangle arrangemen	1	1,00	0,91	0,89
			2	1,00	0,90	0,86
Perforated cable troughs			1	1,00	1,00	1,00
			2	0,97	0,95	0,93
			3	0,96	0,94	0,90

Note: The conversion factors are used only for cables of one layer grouping arrangement. These are not valied when the cables are installedwith contact one upon another or the given sprees between the cable toughs or cable trays, are not followed, in such cases the conversion factorscan be reduced. To parallel current circuits each group of three conductors of the parallel circuit is regarded as single circuit.

CORRESPONDENCE OF XLPE-INSULATED MEDIUM VOLTAGE POWER CABLES

Number of multicore cables			Number of troughs or trays			Conversion factors		
Installation method			1	2	3	4	6	9
Non-perforated cable troughs	With contact	1	0.97	0.84	0.78	0.75	0.71	0.68
		2	0.97	0.83	0.76	0.72	0.68	0.63
		3	0.97	0.82	0.75	0.71	0.66	0.61
		6	0.97	0.81	0.73	0.69	0.63	0.58
Perforated cable troughs	With contact	1	1.0	0.88	0.82	0.79	0.76	0.73
		2	1.0	0.87	0.8	0.77	0.73	0.68
		3	1.0	0.86	0.79	0.76	0.71	0.66
		6	1.0	0.84	0.77	0.73	0.68	0.64
	With space	1	1.0	1	0.98	0.95	0.91	-
		2	1.0	0.99	0.96	0.92	0.87	-
		3	1.0	0.98	0.95	0.91	0.85	-
	With contact	1	1.0	0.88	0.82	0.78	0.73	0.72
		2	1.0	0.88	0.81	0.76	0.71	0.7
	With space	1	1.0	0.91	0.89	0.88	0.87	-
		2	1.0	0.91	0.88	0.87	0.85	-
Cable trays	With contact	1	1.0	0.87	0.82	0.8	0.79	0.78
		2	1.0	0.86	0.81	0.78	0.76	0.73
		3	1.0	0.85	0.79	0.76	0.73	0.7
		6	1.0	0.83	0.76	0.73	0.69	0.66
-	With space	1	1.0	1.0	1.0	1.0	1.0	-
		2	1.0	0.99	0.98	0.97	0.9	-
		3	1.0	0.98	0.97	0.96	0.93	-

Note: The conversion factor are used for cables of one layer grouping arrangement. These are not valid when the cables are installed with contact one upon another or the given spaces between the cable troughs or cable trays can not meet in such cases the conversion factor can be reduced.

CABLEPOWER RATINGS FOR XLPE-INSULATED

MEDIUM VOLTAGE POWER CABLES 6/10 kV, 12/20 kV, 18/30 20/35 kV

N2XSY NA2XSY N2XS2Y NA2XS2Y N2XS(F)2Y NA2XS(F)2Y

CURRENT CARRYING CAPACITY IN AMPERES (A) IN GROUND (20 °C)

Conductor Material	Copper Conductor						Aliminium Conductor					
Arrangement												
U_0 / U cross-section mm²	6/10 kV		12/20 kV		18/30 kV		6/10 kV		12/20 kV		18/30 kV	
25	157	179	-	-	-	-	-	-	-	-	-	-
35	187	212	189	213	-	-	145	165	-	-	-	-
50	220	249	222	250	225	251	171	194	172	195	174	195
70	268	302	271	303	274	304	208	236	210	237	213	238
95	320	359	323	360	327	362	248	281	251	282	254	283
120	363	405	367	407	371	409	283	318	285	319	289	321
150	405	442	409	445	414	449	315	350	319	352	322	354
185	456	493	461	498	466	502	357	394	361	396	364	399
240	526	563	532	568	539	574	413	452	417	455	422	458
300	591	626	599	633	606	640	466	506	471	510	476	514
400	662	675	671	685	680	695	529	558	535	564	541	570
500	744	748	754	760	765	773	602	627	609	634	616	642

This factors are also valid for longitudinally water-tight cable

CURRENT CARRYING CAPACITY* IN AMPERES (A) IN AIR (30 °C)

Conductor Material	Copper Conductor						Aliminium Conductor					
Arrangement												
U_0 / U cross-section mm²	6/10 kV		12/20 kV		18/30 kV		6/10 kV		12/20 kV		18/30 kV	
25	163	194	-	-	-	-	-	-	-	-	-	-
35	197	235	200	235	-	-	153	182	-	-	-	-
50	236	282	239	282	241	282	183	219	185	219	187	219
70	294	350	297	351	299	350	228	273	231	273	232	273
95	358	426	361	426	363	425	278	333	280	332	282	331
120	413	491	416	491	418	488	321	384	323	384	325	382
150	468	549	470	549	472	548	364	432	366	432	367	429
185	535	625	538	625	539	624	418	496	420	494	421	492
240	631	731	634	731	635	728	494	583	496	581	496	578
300	722	831	724	830	725	828	568	666	569	663	568	659
400	827	920	829	923	831	922	660	755	660	753	650	750
500	949	1043	953	1045	953	1045	767	868	766	866	764	861

This factors are also valid for longitudinally water-tight cable

ELECTRICAL CHARACTERISTICS OF XLPE-INSULATED

MEDIUM VOLTAGE POWER CABLES 6/35 kV

CONDUCTOR RESISTANCE 20°C		
cross-section mm²	Cu-conductor Ohm/km	Alu-conductor Ohm/km
25	0.727	1.2
35	0.524	0.868
50	0.387	0.641
70	0.268	0.443
95	0.193	0.32
120	0.153	0.253
150	0.124	0.206
185	0.0991	0.164
240	0.0754	0.125
300	0.0601	0.1
400	0.047	0.0778
500	0.0366	0.0605

CONVERSION FACTORS FOR THE CONDUCTOR TEMPERATURES					
Temperature at °C	60	65	70	80	90
Cu-conductor	1.157	1.177	1.196	1.236	1.275
Alu-conductor	1.161	1.181	1.202	1.242	1.282

CONVERSION FORMULA:

$R_\delta = R_{20} \cdot \frac{234.5+\delta}{248}$ for Cu-conductor

$R_\delta = R_{20} \cdot \frac{228+\delta}{248}$ for Alu-conductor

Conductor temperature at °C = δ
Conductor resistance at δ °C in Ohm/km = R_δ
Conductor resistance at 20 °C in Ohm/km = R_{20}

ELECTRICAL CHARACTERISTICS OF XLPE-INSULATED

MEDIUM VOLTAGE POWER CABLES 6-35 kV

EFFECTIVE RESISTANCE AT 50 HZ (ALTERNATING-CURRENT RESISTANCE)

Copper Conductor						
Nominal Voltage	6/10 kV		12/20 kV		18/30 kV	
Cross-section mm²			Ohm/km			
						
35	0,671	0,673	0,671	0,672	-	-
50	0,497	0,498	0,496	0,498	0,496	0,497
70	0,345	0,346	0,345	0,346	0,344	0,346
95	0,249	0,251	0,249	0,25	0,249	0,25
120	0,198	0,2	0,198	0,2	0,198	0,199
150	0,163	0,165	0,163	0,165	0,162	0,164
185	0,132	0,134	0,131	0,133	0,131	0,133
240	0,102	0,104	0,101	0,103	0,101	0,103
300	0,082	0,085	0,082	0,084	0,082	0,084
400	0,068	0,071	0,067	0,07	0,067	0,069
500	0,055	0,058	0,055	0,058	0,054	0,057
Aluminium Conductor						
Nominal Voltage	6/10 kV		12/20 kV		18/30 kV	
Cross-section mm²			Ohm/km			
						
35	1,12	1,12	1,12	1,12	-	-
50	0,825	0,826	0,825	0,826	0,824	0,826
70	0,571	0,572	0,571	0,572	0,571	0,572
95	0,413	0,415	0,413	0,414	0,413	0,414
120	0,327	0,329	0,327	0,329	0,327	0,328
150	0,269	0,271	0,268	0,27	0,268	0,27
185	0,215	0,217	0,215	0,217	0,214	0,216
240	0,165	0,167	0,165	0,167	0,164	0,166
300	0,133	0,135	0,133	0,135	0,133	0,135
400	0,106	0,109	0,106	0,109	0,106	0,108
500	0,085	0,088	0,084	0,087	0,084	0,087
Inductive resistance at 50 Hz						
Nominal Voltage	6/10 kV		12/20 kV		18/30 kV	
Cross-section mm²			Ohm/km			
						
35	0,144	0,158	0,153	0,168	-	-
50	0,136	0,15	0,145	0,159	0,154	0,169
70	0,129	0,143	0,138	0,152	0,147	0,161
95	0,123	0,137	0,131	0,145	0,139	0,154
120	0,118	0,132	0,126	0,14	0,134	0,148
150	0,114	0,128	0,121	0,135	0,129	0,143
185	0,11	0,124	0,117	0,131	0,125	0,139
240	0,105	0,12	0,112	0,126	0,12	0,134
300	0,102	0,116	0,108	0,123	0,115	0,13
400	0,097	0,111	0,103	0,117	0,11	0,124
500	0,094	0,108	0,100	0,114	0,106	0,120

ELECTRICAL CHARACTERISTICS OF XLPE-INSULATED

MEDIUM VOLTAGE POWER CABLES 6-35 kV

Mutual Capacitance			
Nominal Voltage	6/10 kV	12/20 kV	18/30 kV
Cross-section mm²	µF/km	µF/km	µF/km
35	0.22	0.16	-
50	0.25	0.18	0.14
70	0.28	0.2	0.15
95	0.31	0.22	0.17
120	0.23	0.23	0.23
150	0.37	0.25	0.19
185	0.4	0.27	0.2
240	0.44	0.3	0.22
300	0.48	0.32	0.24
400	0.55	0.36	0.27
500	0.60	0.40	0.29

Inductance						
Nominal Voltage	6/10 kV		12/20 kV		18/30 kV	
Cross-section mm²						
35	0.45	0.76	0.48	0.76	-	-
50	0.42	0.73	0.45	0.74	0.48	0.75
70	0.39	0.7	0.43	0.7	0.45	0.71
95	0.38	0.67	0.41	0.68	0.43	0.68
120	0.36	0.65	0.39	0.65	0.42	0.66
150	0.35	0.63	0.38	0.63	0.41	0.64
185	0.34	0.61	0.36	0.62	0.39	0.63
240	0.32	0.59	0.35	0.59	0.37	0.6
300	0.31	0.57	0.33	0.58	0.36	0.59
400	0.3	0.55	0.33	0.55	0.34	0.56
500	0.29	0.53	0.31	0.53	0.33	0.54

ELECTRICAL CHARACTERISTICS OF XLPE-INSULATED

MEDIUM VOLTAGE POWER CABLES 6-35 kV

Short-circuit current carrying capacity up to 30 kV
Conductor temperature: 90 °C
Short-circuit temperature: 250 °C

CABLE WITH CU-CONDUCTORS

Cross-section mm²	Short-circuit time in s (second)														
	Permissible short-circuit in kA														
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.5	2	3	4	5
25	11.3	8	6.5	5.7	5.1	4.6	4.3	4	3.8	3.6	2.9	2.5	2.1	1.8	1.6
35	15.8	11.2	9.1	7.9	7.1	6.5	6	5.6	5.3	5	4.1	3.5	2.9	2.5	2.2
50	22.6	16	13.1	11.3	10.1	9.2	8.5	8	7.5	7.2	5.8	5.1	4.1	3.6	3.2
70	31.7	22.4	18.3	15.8	14.2	12.9	12	11.2	10.6	10	8.2	7.1	5.8	5	4.5
95	43	30.4	24.8	21.5	19.2	17.5	16.2	15.2	14.3	13.6	11.1	9.6	7.8	6.8	6.1
120	54.3	38.4	31.3	27.1	24.3	22.2	20.5	19.2	18.1	17.2	14	12.1	9.9	8.6	7.7
150	67.8	48	39.2	33.9	30.3	27.7	25.6	24	22.6	21.5	17.5	15.2	12.4	10.7	9.6
185	83.7	59.2	48.3	41.8	37.4	34.2	31.6	29.6	27.9	26.5	21.6	18.7	15.3	13.2	11.8
240	108.5	76.7	62.7	54.3	48.5	44.3	41	38.4	36.2	34.3	28	24.3	19.8	17.2	15.3
300	135.7	95.9	78.3	67.8	60.7	55.4	51.3	48	45.2	42.9	35	30.3	24.8	21.5	19.2
400	180.9	127.9	104.4	90.4	80.9	73.8	68.4	64	60.3	57.2	46.7	40.4	33	28.6	25.6
500	226.1	159.9	130.5	113.1	101.1	92.3	85.5	79.9	75.4	71.5	58.4	50.6	41.3	35.8	32

CABLE WITH ALU-CONDUCTORS

Cross-section mm²	Short-circuit time in s (second)														
	Permissible short-circuit in kA														
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.5	2	3	4	5
25	7.4	5.3	4.3	3.7	3.3	3	2.8	2.6	2.5	2.4	1.9	1.7	1.4	1.2	1.1
35	10.4	7.4	6	5.2	4.7	4.2	3.9	3.7	3.5	3.3	2.7	2.3	1.9	1.6	1.5
50	14.9	10.5	8.6	7.4	6.6	6.1	5.6	5.3	5	4.7	3.8	3.3	2.7	2.4	2.1
70	20.8	14.7	12	10.4	9.3	8.5	7.9	7.4	6.9	6.6	5.4	4.7	3.8	3.3	2.9
95	28.2	20	16.3	14.1	12.6	11.5	10.7	10	9.4	8.9	7.3	6.3	5.2	4.5	4
120	35.7	25.2	20.6	17.8	16	14.6	13.5	12.6	11.9	11.3	9.2	8	6.5	5.6	5
150	44.6	31.5	25.7	22.3	19.9	18.2	16.9	15.8	14.9	14.1	11.5	10	8.1	7.1	6.3
185	55	38.9	31.7	27.5	24.6	22.5	20.8	19.4	18.3	17.4	14.2	12.3	10	8.7	7.8
240	71.3	50.4	41.2	35.7	31.9	29.1	27	25.2	23.8	22.6	18.4	16	13	11.3	10.1
300	89.2	63.1	51.5	44.6	39.9	36.4	33.7	31.5	29.7	28.2	23	19.9	16.3	14.1	12.6
400	118.9	84.1	68.6	59.5	53.2	48.5	44.9	42	39.6	37	30.7	26.6	21.7	18.8	16.8
500	148.6	105.1	85.8	74.3	66.5	60.7	56.2	52.5	49.5	47	38.4	33.2	27.1	23.5	21

ELECTRICAL CHARACTERISTICS OF XLPE-INSULATED

MEDIUM VOLTAGE POWER CABLES 6-35 kV

SHORT-CIRCUIT TO GROUND

Nominal Voltage	6/10 kV	12/20 kV	18/30 kV
Cross-section mm²	A/km	A/km	A/km
35	1.2	1.7	2.3
50	1.4	1.9	2.5
70	1.5	2.1	2.7
95	1.7	2.4	2.9
120	1.9	2.6	3.1
150	2	2.7	3.3
185	2.2	3	3.7
240	2.4	3.3	4
300	2.6	3.5	4.4
400	3	4	4.8
500	3.3	4.3	

SHORT-CIRGUIT CURRENT CARRYING CAPACITY OF COPPER SCREENS SHORT-CIRCUIT TEMPERATURE: 350 °C

Short-circuit time in second		Load of short-circuit current in kA	
	bei 16 mm²	25 mm²	35 mm²
s	kA	kA	kA
0.1	9.7	15.1	21.2
0.2	6.9	10.7	15.1
0.3	5.7	8.9	12.5
0.4	5	7.7	10.9
0.5	4.5	7	9.8
0.6	4.2	6.4	9
0.7	3.9	6	8.4
0.8	3.5	5.6	7.9
0.9	3.4	5.3	7.5
1.0	3.3	5.1	7.2
1.5	2.7	4.2	5.9
2.0	2.3	3.6	5.1
3.0	1.9	2.9	4.2
4.0	1.7	2.6	3.6
5.0	1.5	2.3	3.2

COORDINATION OF SCREEN-CROSS-SECTION

Conductor cross-section mm²	Screen-cross-section mm²
35 to 120	16
150 to 300	25
400 and 500	35

CONVERSION FACTOR FOR MEDIUM VOLTAGE POWER CABLES,6 - 35 KV

LOAD RATING FOR CABLES LAID IN GROUND

LOAD FACTOR 0,7 AND 1,0

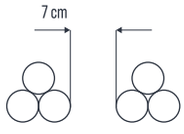
Ground temperature :20° C
Thermal resistivity :1,0 K · m/W
Distance between cables or systems :7 cm
Single core cables laid in trefoil touching arrangement

			Number of cables or systems				
Type of insulation	Cable design	Nominal voltage	2	4	6	8	10
PVC	Multicore cables	0,6/1 up to 3,6/6 kV	0,86	0,71	0,64	0,6	0,57
	Tree core cables	up to 6/10 kV	0,87	0,71	0,63	0,59	0,54
	Single core cables	0,6/1 up to 3,6/6 kV	0,85	0,7	0,63	0,59	0,56
	Single core cables	up to 6/10 kV	0,83	0,66	0,57	0,53	0,49
VPE	Multicore cables	0,6/1 up to 18/30 kV	0,85	0,7	0,63	0,59	0,56
	Single core cables	0,6/1 up to 18/30 kV	0,85	0,7	0,63	0,58	0,56

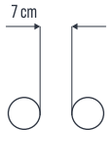
LOAD FACTORY 1,0

			Number of cables or systems					
Type of insulation	Cable design	Nominal voltage	2	4	6	8	10	12
PVC	Multicore cables	0,6/1 up to 3,6/6 kV	0,81	0,66	0,52	0,46	0,43	0,4
	Tree core cables	up to 6/10 kV	0,82	0,67	0,51	0,45	0,41	-
	Single core cables	0,6/1 up to 3,6/6 kV	0,79	0,65	0,51	0,46	0,42	0,4
	Single core cables	up to 6/10 kV	0,78	0,62	0,47	0,4	0,36	-
VPE	Multicore cables	0,6/1 up to 18/30 kV	0,83	0,67	0,53	0,47	0,44	0,41
	Single core cables	0,6/1 up to 18/30 kV	0,81	0,66	0,52	0,47	0,43	0,41

BUILD-UP OF SYSTEMS:



For single core cables



For multicore cables

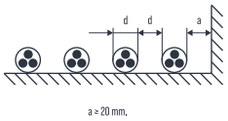
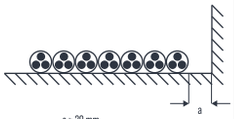
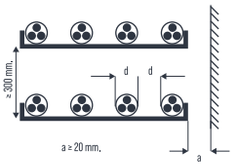
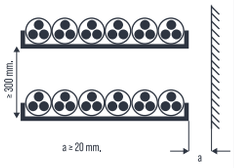
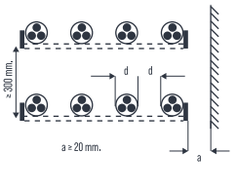
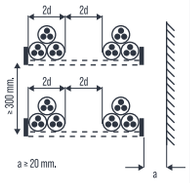
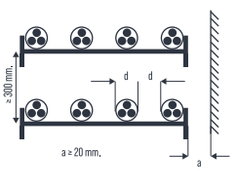
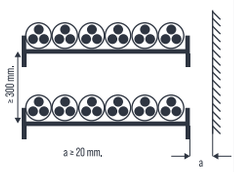
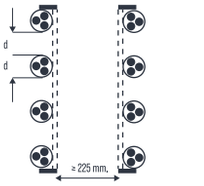
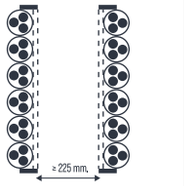
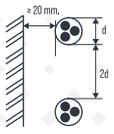
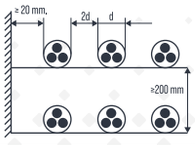
Conversion factors for multicore cables (≤5 cores), Conductor cross-section from 1,5 to 10 mm²

Number of loaded cores	Conversion factors for the values of 1,5 to 10 mm2 to the belonging table.	
	Earth	Air
5	0,7	0,75
7	0,6	0,65
10	0,5	0,55
14	0,45	0,5
19	0,4	0,45
24	0,35	0,4
40	0,3	0,35
61	0,25	0,3

For other conditions e. g. ground, temperature grouping, load factor, thermal resistance, the rating factors should be calculated according toDIN VDE 0276 part 1000.

CONVERSION FACTORS FOR INSTALLATION OF MEDIUM VOLTAGE CABLES, 6 - 35 KV

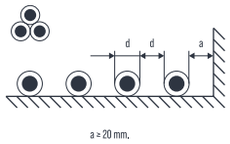
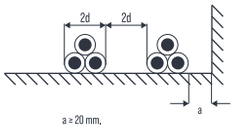
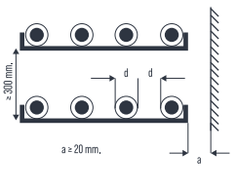
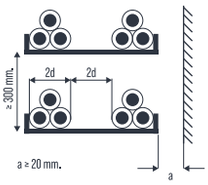
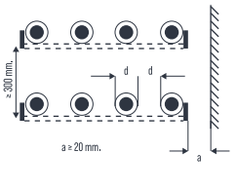
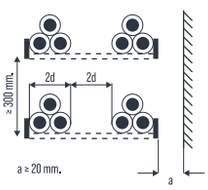
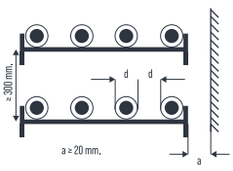
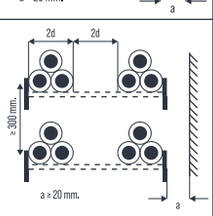
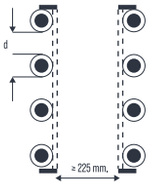
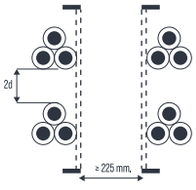
RATING CONVERSION FACTORS FOR LAYING IN AIR*)
MULTICORE CABLE AND SINGLE CORE DIRECT CURRENT CABLE

Arrangement of cables in laying condition	Number of cables troughs or trays	Withhout inter-contact Space = cable Ø d Distance from wall ≥ 2cm Installation method	Number of cables					With inter-contact contact with wall Installation method	Number of cables					
			1	2	3	4	6		1	2	3	4	6	9
On the ground	1		0,97	0,96	0,94	0,93	0,90		0,97	0,85	0,78	0,75	0,71	0,68
On non-perforated cable troughs (restricted air circulation)	1		0.97	0.96	0.94	0.93	0.9		0.97	0.85	0.78	0.75	0.71	0.68
	2		0.97	0.95	0.92	0.9	0.86		0.97	0.84	0.76	0.73	0.68	0.63
	3		0.97	0.94	0.91	0.89	0.84		0.97	0.83	0.75	0.72	0.66	0.61
	6		0.97	0.93	0.9	0.88	0.83		0.97	0.81	0.73	0.69	0.63	0.58
On perforated cable troughs	1		1,0	1,0	0.98	0.95	0.91		1,0	0.88	0.82	0.79	0.76	0.73
	2		1,0	0.99	0.96	0.92	0.87		1,0	0.87	0.8	0.77	0.73	0.68
	3		1,0	0.98	0.95	0.91	0.85		1,0	0.86	0.79	0.76	0.71	0.66
	6		1,0	0.97	0.94	0.9	0.84		1,0	0.84	0.77	0.73	0.68	0.64
On cable trays or on cable ladders (unrestricted air circulation)	1		1,0	1,0	1,0	1,0	1,0		1,0	0.87	0.82	0.8	0.79	0.78
	2		1,0	0.99	0.98	0.97	0.96		1,0	0.86	0.8	0.78	0.76	0.73
	3		1,0	0.94	0.97	0.96	0.93		1,0	0.85	0.79	0.76	0.73	0.7
	6		1,0	0.97	0.96	0.94	0.91		1,0	0.83	0.76	0.73	0.69	0.66
On platform or on wall or on perforated cable tray	1		1,0	0.91	0.89	0.88	0.87		1,0	0.88	0.82	0.78	0.73	0.72
	2		1,0	0.91	0.88	0.87	0.85		1,0	0.88	0.81	0.76	0.71	0.7
Laid on platform or on the wall	-	-	-						0.95	0.78	0.73	0.72	0.68	0.66
Arrangements, for which a reduction not necessary[1)]		Number of cable arranged one over another is optional						Bunber of cable arranged side-by-side is optional						

1)In narrow rooms or for bigger grouping, the air temperature is increased due to energy losses of cable, so the additional conversion factors for deviating air-temperatures are to be taken in the given table.

RATING CONVERSION FACTORS FOR INSTALLATION OF MEDIUM VOLTAGE CABLES, 6 KV

RATING CONVERSION FACTORS FOR LAYING IN AIR*)
SINGLE CORE CABLES IN 3-PHASE SYSTEMS

Arrangement of cables in laying condition	Number of cables troughs or trays	For laying on plain surface Space = cable Ø d Distance from wall ≥ 2cm Installation method	Number of cables			For installation in grouping Space = 2 x cable Ø d Distance from wall ≥ 2cm Installation method	Number of cables		
			1	2	3		1	2	3
On the ground	1		0,92	0,89	0,88		0,98	0,96	0,94
On non-perforated cable troughs (restricted air circulation)	1		0.92	0.89	0.88		0.98	0.96	0.94
	2		0.87	0.84	0.83		0.95	0.91	0.87
	3		0.84	0.82	0.81		0.94	0.90	0.85
	6		0.82	0.80	0.79		0.93	0.88	0.82
On perforated cable troughs	1		1,0	0,93	0,90		1,0	0,98	0,96
	2		0,97	0,89	0,85		0,97	0,93	0,89
	3		0,96	0,88	0,82		0,96	0,92	0,85
	6		0,94	0,84	0,80		0,95	0,90	0,83
On cable trays or on cable ladders (unrestricted air circulation)	1		1,0	0,97	0,96		1,0	1,0	1,0
	2		0,97	0,94	0,93		0,97	0,95	0,93
	3		0,96	0,93	0,92		0,96	0,94	0,90
	6		0,94	0,91	0,90		0,95	0,93	0,87
On platform or on wall or on perforated cable tray	1		0,94	0,91	0,89		1,0	0,91	0,89
	2		0,94	0,90	0,86		1,0	0,90	0,86
Arrangements, for which a reduction not necessary[1)]		For the installation on plain surface with greater distance, the muntual heating is lower, for this occur the additional sheath or screen-losses. Because of that no particulars can be made for reduction-free arrangements.							

Conversion factors for deviating ambient temperature

Temperature °C	10	15	20	25	30	35	40	45	50
VPE-cable	1,15	1,12	1,08	1,04	1,0	0,96	0,91	0,87	0,82
PVC-cable	1,22	1,17	1,12	1,06	1,0	0,94	0,87	0,79	0,71

1)In narrow rooms or for bigger grouping, the air temperature is increased due to energy losses of cable, so the additional conversion factors for deviating air-temperatures are to be taken in the given table.

INDUCTIVITY COEFFICIENT

THE VALUES OF INDUCTIVITY COEFFICIENT FOR MEDIUM VOLTAGE CABLES WITH XLPE INSULATION IS SHOWN IN TABLE 5

Inductivity coefficient *(mH/km)*							
	6/10			12/20		20/35	
Voltage (kV)	Three-core	Single-core		Single-core		Single-core	
mm^2							
35	0.36	0.46	0.76	0.49	0.77	0.53	0.78
50	0.35	0.43	0.73	0.46	0.74	0.50	0.75
70	0.33	0.41	0.70	0.43	0.70	0.47	0.71
95	0.32	0.39	0.67	0.41	0.68	0.45	0.69
120	0.30	0.37	0.65	0.40	0.66	0.44	0.67
150	0.29	0.36	0.62	0.39	0.64	0.43	0.65
185	0.28	0.35	0.60	0.38	0.62	0.41	0.63
240	0.27	0.33	0.58	0.36	0.60	0.39	0.61
300	0.27	0.32	0.57	0.35	0.58	0.38	0.60

CAPACITANCE CURRENT

The charging current which is in cable operation interfered with working current is calculated according to the following formula:

$$l_C = U_0 \omega \, C \, l \, (A)$$

U_0 – Voltage between the conductor and ground (kV)
ω - $2\pi f$
C – Capacity per phase for single-core cables and cables with radial electric field (F/km)
l – Length of cable (m)
The capacity per phase of single-core cables and cables with radial electric field is calculated according to the formula:

$$C = \frac{\varepsilon}{18 \, In \, \frac{D}{d}} \; 10^{-6} \, (f/km)$$

ε – Relative dielectric constant insulation
D – Diameter over insulation
The capacity per phase is shown in the Table 6 for single-core cables and three-core cables with radial electric field.

Rated cross section	Insulation PVC			Insulation PE; XLPE								
	3.6/6 kV			6/10 kV			12/20 kV			20/35 kV		
	70°C			Regardless of temperature								
	C	I_c	I_z	C	I_c	I_z	C	I_c	I_z	C	I_c	I_z
mm2	(μF/km)	(A/km)	(A/km)	(μF/km)	(A/km)	(A/km)	(μF/km)	(A/km)	(A/km)	(μF/km)	(A/km)	(A/km)
25	0.43	0.28	0.8	-	-	-	-	-	-	-	-	-
35	0.48	0.31	0.9	0.21	0.38	1.1	0.15	0.53	1.6	0.11	0.69	2.1
50	0.55	0.36	1.1	0.23	0.42	1.3	0.16	0.59	1.8	0.12	0.75	2.2
70	0.62	0.4	1.2	0.27	0.49	1.5	0.19	0.68	2	0.13	0.84	2.5
95	0.69	0.45	1.4	0.3	0.54	1.6	0.21	0.75	2.2	0.15	0.92	2.8
120	0.75	0.49	1.5	0.32	0.59	1.8	0.22	0.8	2.4	0.16	0.98	3.0
150	0.82	0.53	1.6	0.36	0.65	1.9	0.24	0.88	2.6	0.17	1.06	3.2
180	0.88	0.57	1.7	0.38	0.69	2.1	0.26	0.93	2.8	0.18	1.13	3.4
240	0.98	0.64	1.9	0.44	0.79	2.4	0.29	1.06	3.2	0.2	1.26	3.8
300	0	0	-	0.47	0.85	2.6	0.31	1.13	3.4	0.21	1.34	4.0

PERMITTED CURRENT OF SHORT CIRCUIT

At the selection of conductor cross section, the care must be taken, of the maximum permitted value of short circuit current, since the heat delivers at the moment of short circuit what may cause the softening of insulation and its degradation due to accelerated ageing.

This results in the shortening of cable lifetime and in more serious cases may cause the cable puncture.

The maximum permitted temperatures of the conductor in short circuit lasting 5 seconds according to the MKS for individual insulated materials are show in Table 7.

INSULATION MATERIAL	MAX. PERMITTED TEMPERATURE OF CONDUCTOR (°C)
PVC	*160*
PE U=1kV	*130*
PE U=1kV	*150**
XLPE	*250*

** Relates to cables which have screening of semi-conductive material over the conductor*

The maximum permitted short circuit current of a cable is also determined by the temperature of conductor (copper or aluminum) and its cross section.
On the basis of maximum permitted short circuit current and conductor cross section the Table 8 shows the dependence of current density on the mentioned factors above.
The permitted short circuit current is calculated according to the formula:

$$J = \frac{I}{S} = \frac{K}{\sqrt{t}} \ (A/mm^2)$$

J - current density
I - permitted short circuit current (A)
S - geometrical cross section of conductor (mm2)
t - short circuit duration
K - value depending on the initial temperature of the conductor in the moment of short circuit occurrence and the nature of conductor material. The value of K is numerically equal to the permitted current density t =1 sec.

Insulated cables	t(°C) - before short circuit	Current density (A/mm²) Short circuit duration (s)				
		0,1	0,2	0,5	1	2
Copper conductors						
PVC	70	363.7	257.1	162.6	115	81.3
	65	375	265.2	167.7	118.6	83.9
PE U = 1kV	70	302.9	214.2	135.5	95.8	67.7
PE U > 1kV	70	345	244	154.3	109.1	77.1
XLPE	90	452.2	319.8	202.2	143	101.1
	80	469.6	332	210	148.5	105
	70	487	344.4	217.8	154	108.9
Aluminum conductors						
PVC	70	235.6	166.6	105.4	74.5	52.7
	65	242.9	171.7	108.6	76.8	54.3
PE U = 1kV	70	196.4	138.8	87.8	62.1	43.9
PE U > 1kV	70	223.6	158.1	100	70.7	50
XLPE	90	292.8	207	131	92.6	65.5
	80	303.9	214.9	135.9	96.1	68
	70	315	222.7	140.8	99.6	70.4

The cables with XLPE insulation and electric protection, the special value of short circuit current of electric protection is prescribed during the time of short circuit lasting 1s. These values are shown in Table 9.

Geometrical cross section of electric protection (mm2)	16	25	35
Permitted short circuit current I_k (kA), time = 1s	3.3	5.1	7.2

If the short circuit time deviates from 1s, the permitted short circuit current is calculated by means of formula:

$$I \frac{I_k}{\sqrt{t}} \ (kA)$$

I_k – Current from Table 8 in *(kA)*
t - short circuit current duration in *(s)*

Cable Installation Layout

In power supplies consisting of single-core systems with a single-layer arrangement, the cores should be laid out as follows:

L1 L2 L3 L3 L2 L1 L1 L2 L3 L3 L2 L1

In multi-layer installations, with a minimum spacing of at least 20 cm between layers, the arrangement shall be as follows:

1st Layer: 2st Layer:

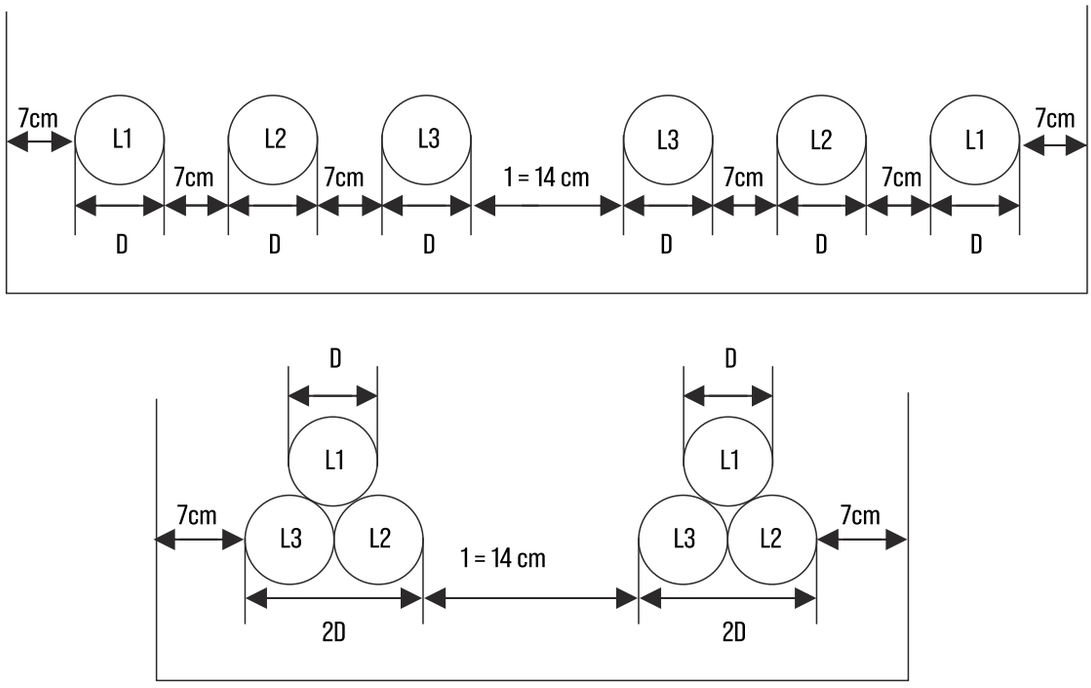
L1 L2 L3 L3 L2 L1
L1 L2 L3 L3 L2 L1
L1 L2 L3 L3 L2 L1

In these power supplies, the same phases must never be installed side-by-side. In other words, an arrangement such as

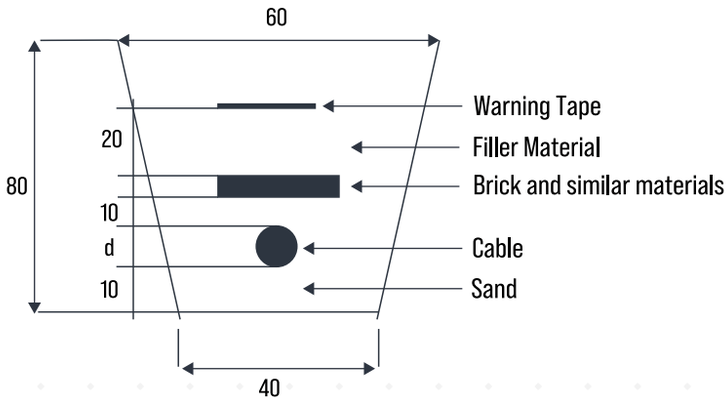
L1 L1 L1 L2 L2 L2 L3 L3 L3

must be avoided. There must be a spacing of at least one cable diameter between the systems. Additionally, the lengths of all systems should be approximately equal.

Example of a Single-Core System



Standard Cable Trench



Laying of Multiple LV (Low Voltage) or V (Medium Voltage) Cables

Cable Installation Layout

G: Calculated trench bottom width

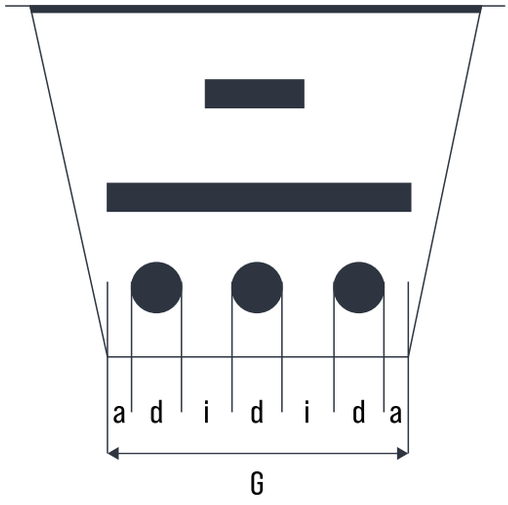
a: Distance between cable and trench wall

d: Cable outer diameter

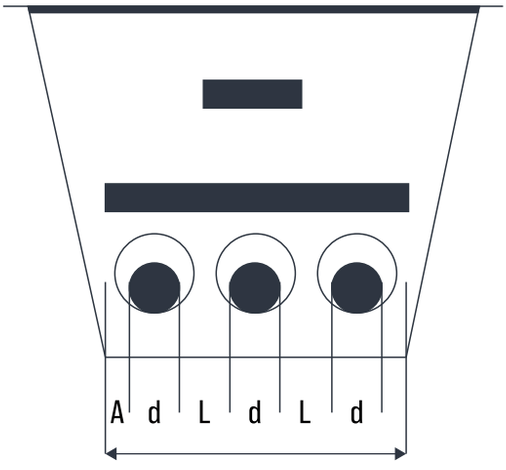
i: Distance between two cables - based on the larger diameter

$$G = 3xd + 2\,xI + 2xa$$

$$l = 7\ cm;\ 7\ cm > 7\ cm,\ then\ L=d$$

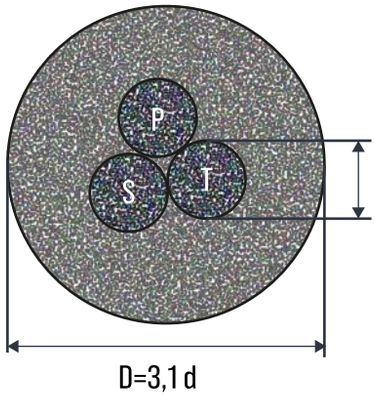


Laying of Multiple LV or MV Cables Inside Conduits



$$A = 1{,}5\ x\ a\ ,\ L = 1{,}5\ x$$
$$G = 3xd + 2xL + 2xa$$

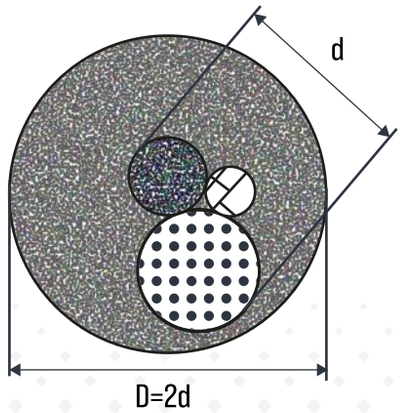
Installation and calculation example of multiple LV or
HV(MV) cables in (conduits)



Steel pipes shall not be used for single-core cable crossings; non-magnetic metal pipes must be used. In areas with potential mechanical stress, three separate phases should be passed through a steel pipe as a trefoil bundle. In this case, the inner diameter of the pipe must be 3.1 times the outer diameter of the cable.For multi-core cables, the inner diameter of the steel pipe must be twice the outer diameter of the cable or twice the total projection length of the outer diameters if multiple cables are used.

CONSIDERATIONS FOR CABLE INSTALLING AND LAYING

- Cable laying cannot be performed at temperatures lower than -5 °C. If laying in cold conditions is strictly necessary, cables must be kept in a +20 °C environment for 24 hours before installation. Cables must never be heated by exposure to fire.
- Cables must never be heated by exposure to fire.
- A 2-meter S-shaped slack should be provided at joint locations.
- Care should be taken to use a single continuous piece of cable throughout the installation.
- Cables should be laid in an S-shape to accommodate potential settling of the backfill material.



NOTES


iNKACABLE

INKA CABLE

TÜV NORD

ISO 45001:2018

ISO 14001:2015

ISO 9001:2015

TSE

TÜRKAK

DVE

VINČA

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