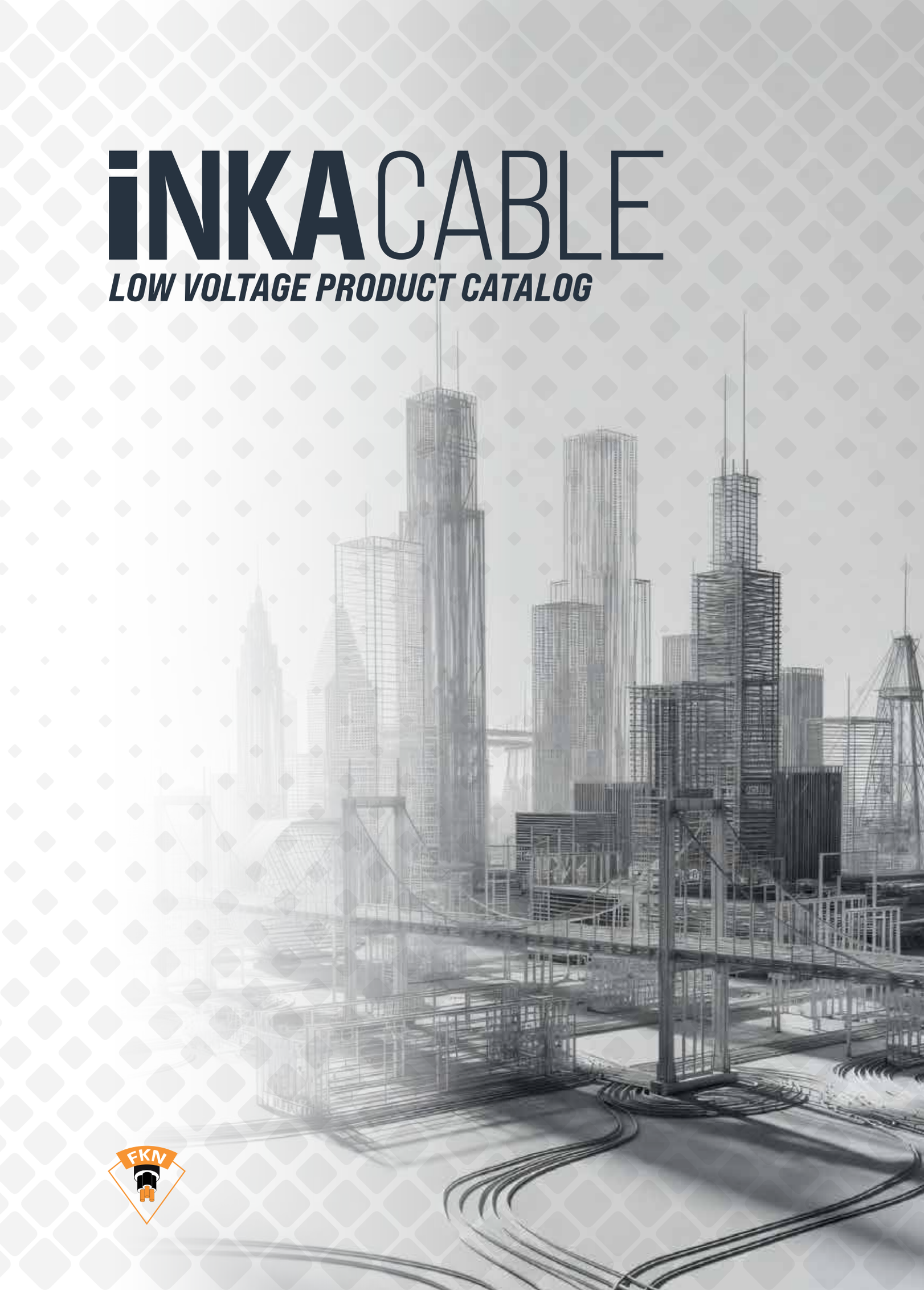
iNKA CABLE

LOW 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.

NTEKAR 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

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AUTHORISED BY
CHAIRMAN/DIRECTOR

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

EAS Acc No.- EUAC159

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

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

EAS Acc No.- EUAC110

MEMBER GLOBAL GCF CONFORMITY FORUM

ISO 45001 : 2018 CERTIFIED COMPANY

PCMS WORLDWIDE LTD
Address : Kemp House, 160 City Road, London, EC1V2NX, United Kingdom
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

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 KABLOLARİ.

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) *INDICATION 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 AII-9105-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

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*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.

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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 ◁▷ᗡШ▷ 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

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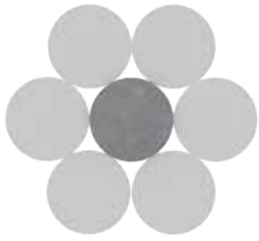
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STRANDED ALUMINIUM CONDUCTORS-AAC

Standard: EN 50182 / TS EN 50182

Circular Non Compacted Aluminium Conductor





Conductor Structure
1-Non Compacted Aluminium Wires

TECHNICAL SPECIFICATIONS									
Conductor Code		Cross-sectional Area	No of Wires	Wire Diameter	Diameter	Unit	Pulling	D.C Resistance	Current Carrying
		Total	Al	Al	Conductor	Weight	Forces	at 20° C	Capacity
		(mm^2)		(mm)	(mm)	(kg/km)	(kN)	(Ohm/km)	(A)
16	16 - AL1	15,89	7	1,70	5,1	43,4	2,84	1,802	110
25	24 - AL1	24,25	7	2,10	6,3	66,3	4,17	1,181	145
35	34 - AL1	34,46	7	2,50	7,5	93,9	5,74	0,833	180
50	49 - AL1	49,48	7	3,00	9,0	135,2	7,95	0,579	225
50	48 - AL1	48,36	19	1,80	9,0	132,9	8,44	0,595	225
70	66 - AL1	65,82	19	2,10	10,5	180,9	11,25	0,437	270
95	93 - AL1	93,27	19	2,50	12,5	256,3	15,65	0,309	340
120	117 - AL1	117,00	19	2,80	14,0	321,5	18,75	0,246	390
150	147 - AL1	147,10	37	2,25	15,7	405,7	25,25	0,196	455
185	182 - AL1	181,60	37	2,50	17,5	500,9	30,45	0,159	520
240	243 - AL1	242,50	61	2,25	20,2	871,1	39,35	0,119	625
300	299 - AL1	299,40	61	2,50	22,5	828,5	47,55	0,097	710
400	400 - AL1	400,10	61	2,89	26,0	1107,1	60,70	0,072	855
500	500 - AL1	499,80	61	3,23	29,1	1382,9	74,50	0,058	990

STRANDED COPPER CONDUCTORS

Standard: IEC 60228 / TS IEC 60228 / TS EN 13602 / EN 13602

Circular Compacted Copper Conductor





Conductor Structure
1-Compacted Copper Wires

TECHNICAL SPECIFICATIONS				
Cross-sectional Area	No of Wires	Diameter	Unit	D.C Resistance
Total	CU	Conductor	Weight	at 20° C
(mm^2)	(Max.)	(mm) (Nom.)	(kg/km) (Nom.)	(Ohm/km) (Max.)
10	7	3,9	85	1,83
16	7	4,9	135	1,15
25	7	5,9	215	0,727
35	7	6,9	295	0,524
50	10	8,0	405	0,387
70	14	9,8	585	0,268
95	19	11,4	810	0,193
120	19	12,9	1025	0,153
150	30	14,3	1255	0,124
185	37	15,9	1575	0,0991
240	37	18,1	2085	0,0754
300	47	20,3	2600	0,0601
400	60	23,1	3330	0,0470

STEEL-CORE STRANDED ALUMINUM CONDUCTOR -ACSR

Standard: EN 50182 / TS EN 50182

Steel Wires and Aluminium Wires / Circular Non Compacted Aluminium Conductor
Aluminium Conductors Steel Reinforced



Conductor Structure
1-Non Compacted Steel Wires
2-Non Compacted Aluminium Wires

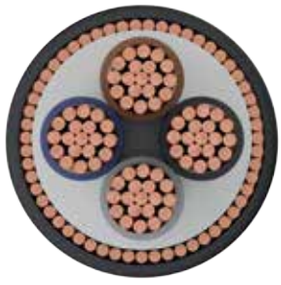
TECHNICAL SPECIFICATIONS																
Conductor Code		Cross-sectional Area			No of Wires		Wire Diameter		Diameter		Unit	Pulling	D.C Resistance	Elasticity	Linear Expansion	Current Carrying
		Al	Steel	Total	Al	Steel	Al	Steel	Core	Conductor	Weight	Forces	at 20° C	Module	Coefficient	Capacity
		(mm^2)	(mm^2)	(mm^2)			(mm)	(mm)	(mm)	(mm)	(kg/km)	(kN)	(Ohm/km)	(N/mm^2)	(1/K)	(A)
25/4	24-AL1/4-ST1A	23,9	4,0	27,8	6	1	2,30	2,30	2,3	6,8	96	8,95	1,201	81000	$1,92 \times 10^{-5}$	140
35/6	34-AL1/6-ST1A	34,3	5,7	40,1	6	1	2,70	2,70	2,7	8,1	138	12,37	0,834	81000	$1,92 \times 10^{-5}$	180
50/8	48-AL1/8-ST1A	48,3	8,0	56,3	6	1	3,20	3,20	3,2	9,6	195	16,81	0,593	81000	$1,92 \times 10^{-5}$	210
70/12	70-AL1/12-ST1A	69,9	11,4	81,3	26	7	1,85	1,44	4,3	11,7	286	26,27	0,413	77000	$1,89 \times 10^{-5}$	290
95/15	94-AL1/15-ST1A	94,4	15,3	109,7	26	7	2,15	1,67	5,0	13,6	380	34,93	0,306	77000	$1,89 \times 10^{-5}$	350
120/20	122-AL1/20-ST1A	121,6	19,8	141,4	26	7	2,40	1,85	5,7	15,5	491	44,5	0,237	77000	$1,89 \times 10^{-5}$	410
125/30	128-AL1/30-ST1A	127,9	29,8	157,8	30	7	2,30	2,30	7,0	16,3	587	54,41	0,226	82000	$1,78 \times 10^{-5}$	425
150/25	149-AL1/24-ST1A	148,6	24,2	173,1	26	7	2,70	2,10	6,3	17,1	601	53,67	0,194	77000	$1,89 \times 10^{-5}$	470
170/40	172-AL1/40-ST1A	171,8	40,1	211,8	30	7	2,70	2,70	8,1	18,9	788	74,89	0,168	82000	$1,78 \times 10^{-5}$	520
185/30	184-AL1/30-ST1A	183,8	29,8	213,6	26	7	3,00	2,30	7,0	19,0	741	65,27	0,157	77000	$1,89 \times 10^{-5}$	535
210/35	209-AL1/34-ST1A	209,1	34,1	243,2	26	7	3,20	2,50	7,5	20,3	844	73,36	0,138	77000	$1,89 \times 10^{-5}$	590
210/50	212-AL1/49-ST1A	212,1	49,5	261,5	30	7	3,00	3,00	9,0	21,0	973	92,46	0,136	82000	$1,78 \times 10^{-5}$	610
230/30	231-AL1/30-ST1A	230,9	29,8	260,8	24	7	3,50	2,30	7,0	21,0	871	72,13	0,125	74000	$1,96 \times 10^{-5}$	630
240/40	243-AL1/39-ST1A	243,1	39,5	282,5	26	7	3,50	2,70	8,0	21,8	980	85,12	0,118	77000	$1,89 \times 10^{-5}$	645
265/35	264-AL1/34-ST1A	263,7	34,1	297,7	24	7	3,70	2,50	7,5	22,4	994	81,04	0,109	74000	$1,96 \times 10^{-5}$	680
300/50	304-AL1/49-ST1A	304,3	49,5	353,7	26	7	3,90	3,00	9,0	24,4	1227	105,09	0,094	77000	$1,89 \times 10^{-5}$	740

YVCV-U, YVCV- R & NYCY & CU / PVC / SC / PVC

Standard: TS IEC 60502-1 / IEC 60502 – 1 / VDE 0271 / VDE 0276 / BS 6346

Copper Conductor / PVC insulated / Filler / Copper Wires and Copper Tape Screen / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data	
Core temperature, max.	70 °C in Operation
Max. Short Circuit Temperature	160 °C / 5 sec.
Bending Radius, min.	15 x D Cable
Max. Permessble Tensile	50 N / mm^2
Rated current carrying capacity	One system

Cable Structure	
Conductor	IEC 60228 Class 1 and Class 2
Insulation	PVC IEC 60502-1
Color of Insulation	Brown, Black, Grey, Blue, Yellow/Green
	Black Numbered Isolated
Filler	IEC 60502-1
Screen	Copper Wires and Copper Tape
Sheath	PVC
Color of Sheath	Black

Application

These cables, used in substations, industrial facilities, and urban networks, are equipped with a concentric conductor that ensures safety during any mechanical impact by triggering the protective circuit breaker or fuse switch connected to the network. This mechanism prevents the energy within the cable from causing harm to the surrounding environment. The power cables with insulation of PVC are designed for

RE – solid round shaped conductor
RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
2x2.5/2,5	RE	13	250	1000	7,41	42	27
4x2.5/2.5	RE	15	330	1000	7,41	34	25
8x2,5/2,5	RE	19	550	1000	7,41	20	16
16x2,5/4	RE	23	850	1000	7,41	14	12
24x2.5/4	RE	28	1300	1000	7,41	11	10
4x4/4	RE	17	470	1000	4,61	44	34
4x16/16	RM	24	1220	1000	1,15	98	80
2x25/16	RM	24	1100	1000	0,727	150	120
4x25/16	RM	28	1650	1000	0,727	130	105
4x35/16	RM	30	2050	1000	0,524	155	130
4x120/70	RM	49	6800	500	0,153	310	280


CABLE FACTORY NEGOTINO - FKN

YAVV-R / NAYY / PP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

One Core / Aluminum Conductor / PVC insulated / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC IEC 60502-1
Bending Radius, min.	12 x D cable	***Color of Insulation***	Black or Blue
Max. Permessble Tensile	30 N/mm^2	***Sheath***	PVC IEC 60502-1
Rated current carrying capacity	Flat Formation	***Color of Sheath***	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0,6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear, as distribution cables, places where the risk of mechanical damage is high, outdoors, indoors,munderground or used in cable ducts.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
1x16	RM	9,7	120	1000	1,91	80	75
1x25	RM	11,3	150	1000	1,20	125	87
1x35	RM	12,2	190	1000	0,868	151	131
1x50	RM	13,7	270	1000	0,641	179	160
1x70	RM	15,4	330	1000	0,443	218	202
1x95	RM	17,7	430	1000	0,320	261	249
1x120	RM	19,1	530	1000	0,253	297	291
1x150	RM	21,1	680	1000	0,206	332	333
1x185	RM	23,3	780	1000	0,164	376	384
1x240	RM	26,2	1000	1000	0,125	437	460
1x300	RM	29,1	1290	1000	0,100	494	530
1x400	RM	32,3	1650	1000	0,0778	572	642

YAVV-R / NAYY / PP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Three Cores / Aluminum Conductor / PVC insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		Cable Structure	
Core temperature, max.	70 °C in Operation	*Conductor*	IEC 60228 Class 2
Max. Short Circuit Temperature	160 °C / 5 sec.	*Insulation*	PVC IEC 60502-1
Bending Radius, min.	15 x D cable	*Color of Insulation*	Brown, Black, Grey
Max. Permessble Tensile	30 N/mm^2	*Filler*	IEC 60502-1
Rated current carrying capacity	One system	*Sheath*	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0,6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear, as distribution cables, places where the risk of mechanical damage is high, outdoors, indoors,munderground or used in cable ducts.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x16	RM	20,5	510	1000	1,91	70	65
3x25	RM	24,0	800	1000	1,20	99	83
3x35	RM	25,9	940	1000	0,868	120	102
3x50	RM	29,0	1200	1000	0,641	142	124
3x70	RM	33,5	1640	1000	0,443	176	158
3x95	RM	38,2	2150	1000	0,320	211	160
3x120	RM	41,6	2400	1000	0,253	242	220
3x150	RM	46,0	3100	1000	0,206	270	252
3x185	RM	50,8	3700	500	0,164	308	289
3x240	RM	57,3	4800	500	0,125	363	339
3x300	RM	63,5	5800	500	0,100	412	377
3x400	RM	70,5	7500	500	0,0778	475	444

YAVV-R / NAYY / PP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Aluminum Conductor / PVC insulated / Filler / PVC Sheath
6Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown,Black,Grey,Blue
Max. Permessble Tensile	30 N/mm^2	***Sheath***	PVC IEC 60502-1
Rated current carrying capacity	One system	***Color of Sheath***	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0,6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear, as distribution cables, places where the risk of mechanical damage is high, outdoors, indoors, underground or used in cable ducts.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x16 + 10	RM	22,0	560	1000	1,91	70	65
3x25 + 16	RM	25,8	910	1000	1,20	99	83
3x35 + 16	RM	28,0	1020	1000	0,868	118	102
3x50 + 25	RM	32,2	1400	1000	0,641	142	124
3x70 + 35	RM	37,0	1810	1000	0,443	176	158
3x95 + 50	RM	42,4	2450	1000	0,320	211	160
3x120 + 70	RM	47,0	2950	1000	0,253	242	220
3x150 + 70	RM	51,0	3500	1000	0,206	270	252
3x185 + 95	RM	56,7	4300	500	0,164	308	289
3x240 + 120	RM	63,6	5600	500	0,125	363	339
3x300 + 150	RM	70,3	6600	500	0,100	412	377

YAVV-R / NAYY / PP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Cores / Aluminum Conductor / PVC insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey, Blue
Max. Permessble Tensile	30 N/mm^2	***Filler***	IEC 60502-1
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0,6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear, as distribution cables, places where the risk of mechanical damage is high, outdoors, indoors, underground or used in cable ducts.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
4x16	RM	22,3	600	1000	1,91	70	65
4x25	RM	26,2	950	1000	1,20	99	83
4x35	RM	28,3	1130	1000	0,868	118	102
4x50	RM	32,5	1550	1000	0,641	142	124
4x70	RM	37,0	2000	1000	0,443	176	158
4x95	RM	42,3	2600	1000	0,320	211	160
4x120	RM	46,4	3100	1000	0,253	242	220
4x150	RM	51,0	3900	1000	0,206	270	252
4x185	RM	56,8	4800	500	0,164	308	289
4x240	RM	63,6	6000	500	0,125	363	339
4x300	RM	70,5	7400	500	0,100	412	377
4x400	RM	78,9	9600	500	0,0778	475	444

iNKACABLE



YVV-U, YVV- R / NYY / PP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

One Core / Copper Conductor / PVC insulated / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	IEC60228 Class 2 / Class 1
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC IEC 60502-1
Bending Radius, min.	12 x D cable	***Color of Insulation***	Black or Blue
Max. Permessble Tensile	50 N/mm^2	***Sheath***	PVC IEC 60502-1
Rated current carrying capacity	Flat Formation	***Color of Sheath***	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0,6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear and industrial facilities, as the power cable in the distribution, in places where the risk of mechanical damage is high (outside, inside), underground and cable used in channels.

RE – solid round shaped conductor
RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
1x1,5	RE	5,8	50	1000	12,1	-	25
1x2,5	RE	6,1	60	1000	7,41	-	34
1x4	RE	7,0	85	1000	4,61	-	45
1x6	RE	7,5	105	1000	3,08	-	57
1x10	RM	8,7	155	1000	1,83	-	78
1x16	RM	9,7	210	1000	1,15	127	103
1x25	RM	11,3	310	1000	0,727	163	137
1x35	RM	12,2	420	1000	0,524	195	169
1x50	RM	13,7	560	1000	0,387	230	206
1x70	RM	15,4	780	1000	0,268	282	261
1x95	RM	17,7	1040	1000	0,193	336	321
1x120	RM	19,1	1300	1000	0,153	382	374
1x150	RM	21,1	1600	1000	0,124	428	428
1x185	RM	23,3	1900	1000	0,0991	483	494
1x240	RM	26,2	2450	1000	0,0754	561	590
1x300	RM	29,1	3000	1000	0,0601	632	678
1x400	RM	32,3	4000	1000	0,0470	730	817
1x500	RM	36,2	5000	1000	0,0366	823	940
1x630	RM	39,9	6150	500	0,0283	866	1100

YVV-U, YVV- R / NYY / PP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Two Cores / Copper Conductor / PVC insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		Cable Structure	
Core temperature, max.	70 °C in Operation	*Conductor*	IEC60228 Class 2 / Class 1
Max. Short Circuit Temperature	160 °C / 5 sec.	*Insulation*	PVC IEC 60502-1
Bending Radius, min.	15 x D cable	*Color of Insulation*	Brown, Blue
Max. Permessble Tensile	50 N/mm^2	*Filler*	IEC 60502-1
Rated current carrying capacity	One system	*Sheath*	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0,6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear and industrial facilities, as the power cable in the distribution, in places where the risk of mechanical damage is high (outside, inside), underground and cable used in channels.

RE – solid round shaped conductor
RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
2x1.5	RE	11,5	170	1000	12,1	32	20
2x2.5	RE	12,3	220	1000	7,41	42	27
2x4	RE	14,0	320	1000	4,61	54	37
2x6	RE	15,0	370	1000	3,08	68	48
2x10	RM	17,4	550	1000	1,83	90	66
2x16	RM	19,4	680	1000	1,15	116	89
2x25	RM	22,6	1000	1000	0,727	150	118
2x35	RM	24,4	1250	1000	0,524	181	145
2x50	RM	27,3	1650	1000	0,387	215	176
2x70	RM	30,9	2200	1000	0,268	264	224
2x95	RM	35,7	2950	1000	0,193	317	271
2x120	RM	38,8	3600	1000	0,153	360	314
2x150	RM	42,5	4300	1000	0,124	406	361
2x185	RM	47,4	5500	500	0,0991	458	412
2x240	RM	53,1	7000	500	0,0754	537	484
2x300	RM	59,1	8700	500	0,0601	604	556

YVV-U, YVV- R / NYY / PP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Three Cores / Copper Conductor / PVC insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	IEC60228 Class 2 / Class 1
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey
Max. Permessble Tensile	50 N/mm^2	***Sheath***	PVC IEC 60502-1
Rated current carrying capacity	One System	***Color of Sheath***	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0,6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear and industrial facilities, as the power cable in the distribution, in places where the risk of mechanical damage is high (outside, inside), underground and cable used in channels.

RE – solid round shaped conductor
RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x1.5	RE	12,0	220	1000	12,1	26	18,5
3x2.5	RE	12,8	250	1000	7,41	34	25
3x4	RE	14,7	360	1000	4,61	44	34
3x6	RE	15,8	430	1000	3,08	56	43
3x10	RM	18,3	640	1000	1,83	75	60
3x16	RM	20,5	850	1000	1,15	98	80
3x25	RM	24,0	1250	1000	0,727	128	106
3x35	RM	25,9	1600	1000	0,524	157	131
3x50	RM	29	2100	1000	0,387	185	159
3x70	RM	33,5	2900	1000	0,268	228	202
3x95	RM	38,2	3900	1000	0,193	275	244
3x120	RM	41,6	4750	1000	0,153	313	282
3x150	RM	46,0	5900	500	0,124	353	324
3x185	RM	50,8	7250	500	0,0991	399	371
3x240	RM	57,3	9250	500	0,0754	464	436
3x300	RM	63,5	11500	250	0,0601	524	481
3x400	RM	70,5	15300	250	0,0470	600	560

YVV- R / NYY / PP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Copper Conductor / PVC insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey, Blue
Max. Permessble Tensile	50 N/mm^2	***Filler***	IEC 60502-1
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0.6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear and industrial facilities, as the power cable in the distribution, in places where the risk of mechanical damage is high (outside, inside), underground and cable used in channels.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x16 + 10	RM/RM	22,0	980	1000	1,15	98	80
3x25 + 16	RM/RM	25,8	1500	1000	0,727	128	106
3x35 + 16	RM/RM	28,0	1800	1000	0,524	157	131
3x50 + 25	RM/RM	32,2	2420	1000	0,387	185	159
3x70 + 35	RM/RM	37,0	3400	1000	0,268	228	202
3x95 + 50	RM/RM	42,4	4400	1000	0,193	275	244
3x120 + 70	RM/RM	47,0	5500	500	0,153	313	282
3x150 + 70	RM/RM	51,0	6500	500	0,124	353	324
3x185 + 95	RM/RM	56,7	8300	500	0,0991	399	371
3x240 + 120	RM/RM	63,6	10500	500	0,0754	464	436
3x300 + 150	RM/RM	70,3	13300	250	0,0601	524	481

YVV-U, YVV- R / NYY / PP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Copper Conductor / PVC insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





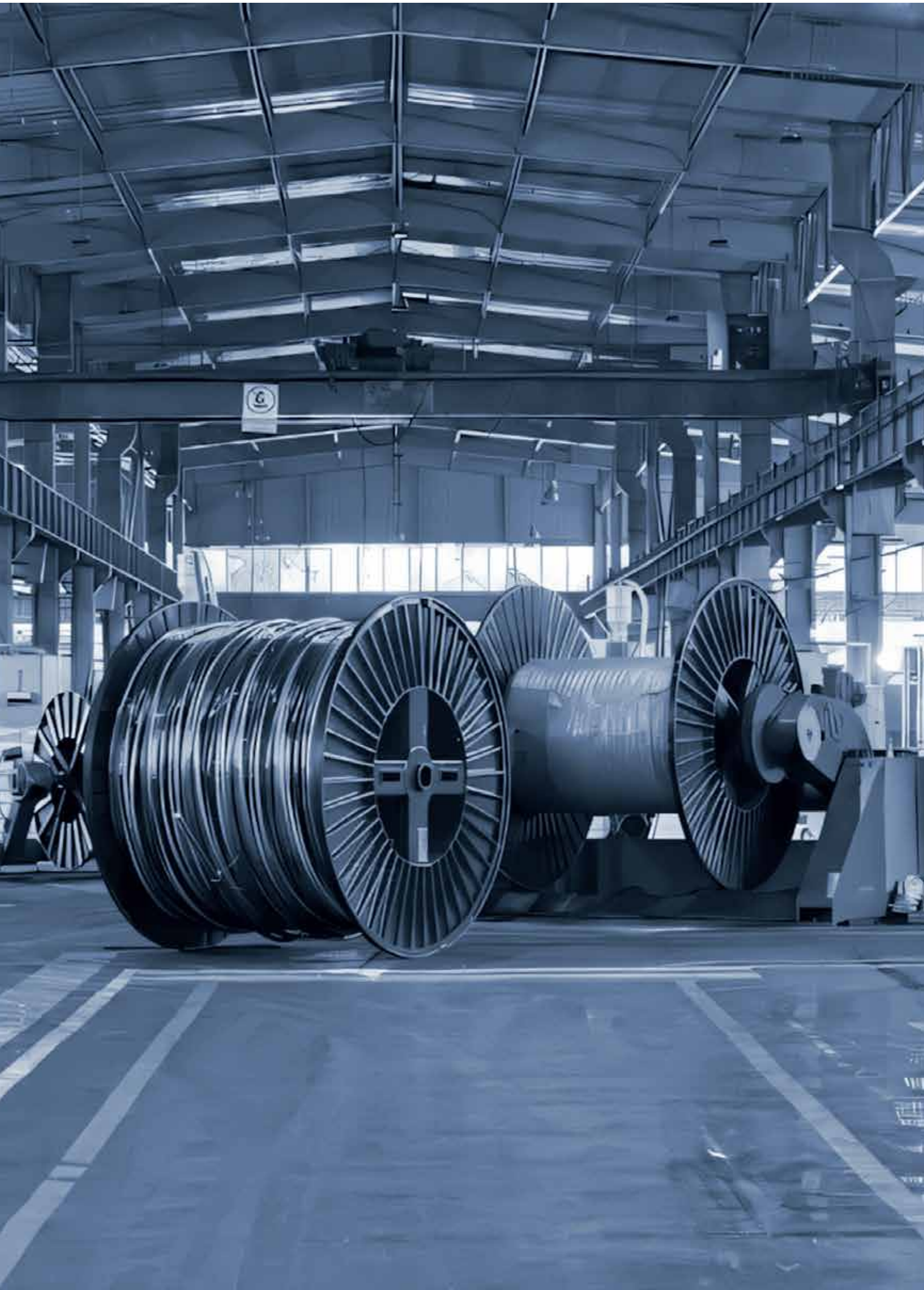
Technical Data		Cable Structure	
Core temperature, max.	70 °C in Operation	Conductor	IEC60228 Class 2 / Class 1
Max. Short Circuit Temperature	160 °C / 5 sec.	Insulation	PVC IEC 60502-1
Bending Radius, min.	15 x D cable	Color of Insulation	Brown, Black, Grey, Blue
Max. Permessble Tensile	50 N/mm^2	Filler	IEC 60502-1
Rated current carrying capacity	One System	Sheath	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0.6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear and industrial facilities, as the power cable in the distribution, in places where the risk of mechanical damage is high (outside, inside) underground and cable used in channels.

RE – solid round shaped conductor
RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
4x1.5	RE	12,8	250	1000	12,1	26	18,5
4x2.5	RE	13,7	290	1000	7,41	34	25
4x4	RE	15,8	420	1000	4,61	44	34
4x6	RE	17,0	530	1000	3,08	56	43
4x10	RM	19,9	700	1000	1,83	75	60
4x16	RM	22,3	1060	1000	1,15	98	80
4x25	RM	26,2	1550	1000	0,727	128	106
4x35	RM	28,3	2000	1000	0,524	157	131
4x50	RM	32,5	2700	1000	0,387	185	159
4x70	RM	37,0	3700	1000	0,268	228	202
4x95	RM	42,3	5000	1000	0,193	275	244
4x120	RM	46,4	6200	500	0,153	313	282
4x150	RM	51,0	7600	500	0,124	353	324
4x185	RM	56,8	9450	500	0,0991	399	371
4x240	RM	63,6	12000	500	0,0754	464	436
4x300	RM	70,5	15000	250	0,0601	524	481
4x400	RM	78,9	19500	250	0,0470	600	560



YAXV - R / NA2XY / XP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

One Core / Aluminum Conductor / XLPE insulated / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	90 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	***Insulation***	XLPE IEC 60502-1
Bending Radius, min.	12 x D cable	***Color of Insulation***	Black or Blue
Max. Permessble Tensile	30 N/mm^2	***Sheath***	PVC IEC 60502-1
Rated current carrying capacity	Flat Formation	***Color of Sheath***	Black

Application

These cables are characterized by very low dielectric losses; are used in energy centers, distribution and industrial facilities, local power transmission, where there is high risk of mechanical damage such as the power cable in the distribution (internal, external), is placed underground or in ducts.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
1x25	RM	10,7	140	1000	1,200	150	135
1x35	RM	11,6	170	1000	0,868	164	163
1x50	RM	12,9	240	1000	0,641	195	200
1x70	RM	14,8	310	1000	0,443	238	254
1x95	RM	16,7	410	1000	0,320	284	313
1x120	RM	18,3	490	1000	0,253	323	366
1x150	RM	20,3	580	1000	0,206	361	420
1x185	RM	22,3	730	1000	0,164	408	486
1x240	RM	25,0	930	1000	0,125	476	585
1x300	RM	27,7	1140	1000	0,100	537	675
1x400	RM	30,9	1500	1000	0,0778	616	798
1x500	RM	34,8	1750	1000	0,0605	699	926

YAXV - R / NA2XY / XP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Two Cores / Aluminum Conductor / XLPE insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	90 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	***Insulation***	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Blue
Max. Permessble Tensile	30 N/mm^2	***Filler***	IEC 60502-1
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

These cables are characterized by very low dielectric losses; are used in energy centers, distribution and industrial facilities, local power transmission, where there is high risk of mechanical damage such as the power cable in the distribution (internal, external), is placed underground or in ducts.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
2x25	RM	21,4	590	1000	1,20	110	115
2x35	RM	23,2	690	1000	0,868	130	140
2x50	RM	25,7	880	1000	0,641	155	175
2x70	RM	29,5	1180	1000	0,443	195	220
2x95	RM	33,7	1510	1000	0,320	235	270

YAXV - R / NA2XY / XP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Three Cores / Aluminum Conductor / XLPE insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		Cable Structure	
Core temperature, max.	90 °C in Operation	*Conductor*	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	*Insulation*	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	*Color of Insulation*	Brown,Black,Grey
Max. Permessble Tensile	30 N/mm^2	*Filler*	IEC 60502-1
Rated current carrying capacity	One system	*Sheath*	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. These cables are characterized by very low dielectric losses; are used in energy centers, distribution and industrial facilities, local power transmission, where there is high risk of mechanical damage such as the power cable in the distribution (internal, external), is placed underground or in ducts.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x25	RM	22,7	640	1000	1,20	111	100
3x35	RM	24,6	810	1000	0,868	132	122
3x50	RM	27,3	1090	1000	0,641	157	147
3x70	RM	31,6	1400	1000	0,443	195	189
3x95	RM	35,9	1750	1000	0,320	233	232
3x120	RM	39,6	2200	1000	0,253	266	270
3x150	RM	44,2	2800	1000	0,206	299	308
3x185	RM	48,9	3400	1000	0,164	340	357
3x240	RM	54,5	4350	1000	0,125	401	435
3x300	RM	60,7	5300	500	0,100	455	501
3x400	RM	67,9	7000	500	0,0778	526	592

YAXV - R / NA2XY / XP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Aluminum Conductor / XLPE insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	90 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	***Insulation***	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey, Blue
Max. Permessble Tensile	30 N/mm^2	***Filler***	IEC 60502-1
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. These cables are characterized by very low dielectric losses; are used in energy centers, distribution and industrial facilities, local power transmission, where there is high risk of mechanical damage such as the power cable in the distribution (internal, external), is placed underground or in ducts.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x25 + 16	RM/RM	24,3	760	1000	1,20	111	100
3x35 + 16	RM/RM	26,5	880	1000	0,868	132	122
3x50 + 25	RM/RM	30,2	1210	1000	0,641	157	147
3x70 + 35	RM/RM	35,4	1650	1000	0,443	195	189
3x95 + 50	RM/RM	39,9	2070	1000	0,320	233	232
3x120 + 70	RM/RM	44,6	2600	1000	0,253	266	270
3x150 + 70	RM/RM	49,0	3200	1000	0,206	299	308
3x185 + 95	RM/RM	54,5	3900	1000	0,164	340	357
3x240 + 120	RM/RM	61,1	4850	500	0,125	401	435
3x300 + 150	RM/RM	67,4	5950	500	0,100	455	501

YAXV - R / NA2XY / XP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Aluminum Conductor / XLPE insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





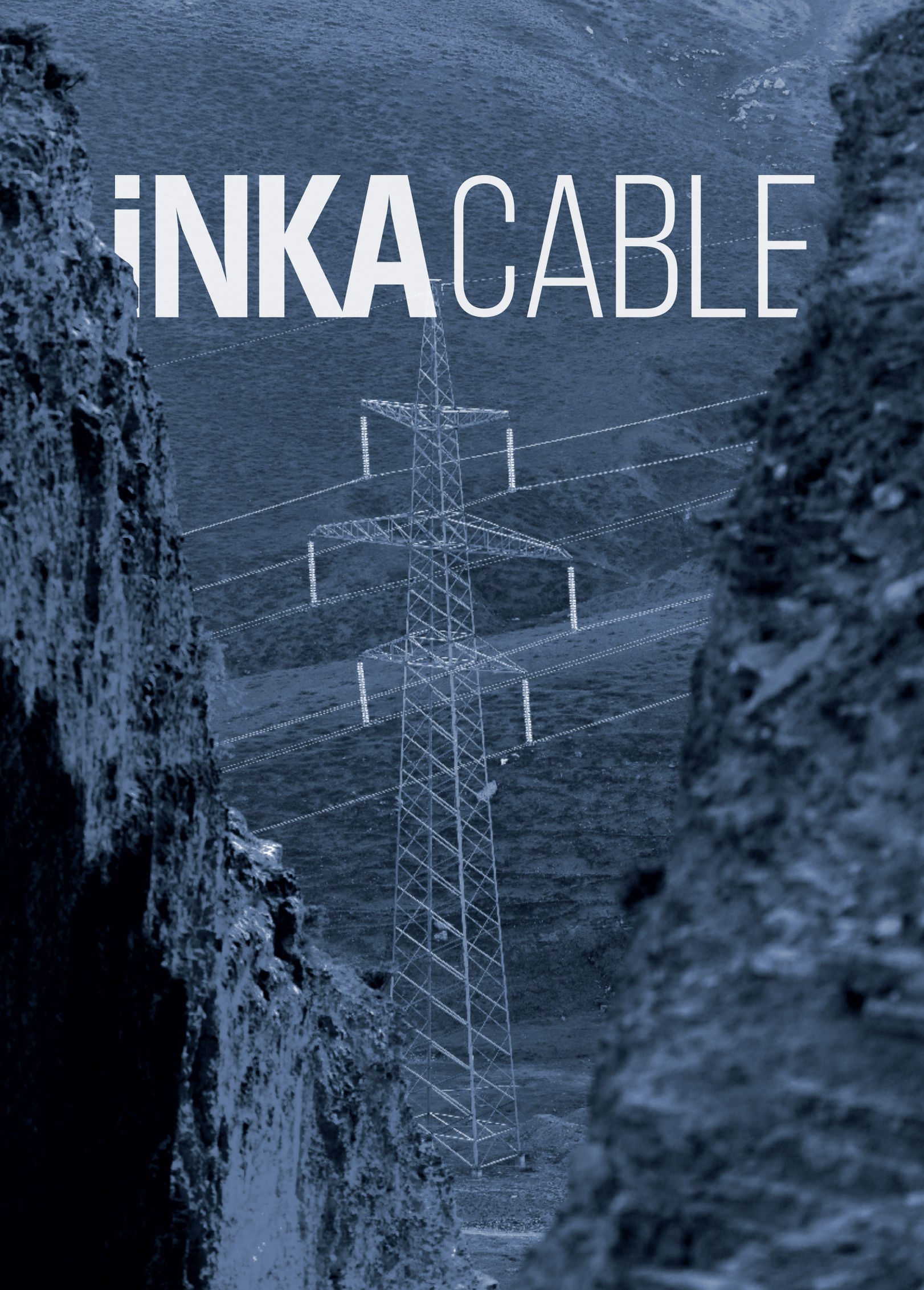
Technical Data		Cable Structure	
Core temperature, max.	90 °C in Operation	*Conductor*	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	*Insulation*	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	*Color of Insulation*	Brown, Black, Grey, Blue
Max. Permessble Tensile	30 N/mm^2	*Filler*	IEC 60502-1
Rated current carrying capacity	One system	*Sheath*	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. These cables are characterized by very low dielectric losses; are used in energy centers, distribution and industrial facilities, local power transmission, where there is high risk of mechanical damage such as the power cable in the distribution (internal, external), is placed underground or in ducts.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
4x25	RM	24,7	810	1000	1,20	111	100
4x35	RM	26,9	950	1000	0,868	132	122
4x50	RM	30,1	1250	1000	0,641	157	147
4x70	RM	35,3	1700	1000	0,443	195	189
4x95	RM	39,6	2200	1000	0,320	233	232
4x120	RM	44,4	2800	1000	0,253	266	270
4x150	RM	48,9	3400	1000	0,206	299	308
4x185	RM	54,2	4100	1000	0,164	340	357
4x240	RM	61,0	5350	500	0,125	401	435
4x300	RM	67,4	6500	500	0,100	455	501
4x400	RM	74,2	8600	500	0,0778	526	592


iNKACABLE

YXV - U, YXV - R, / N2XY / XP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

One Core / Copper Conductor / XLPE insulated / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		Cable Structure	
Core temperature, max.	90 °C in Operation	*Conductor*	IEC 60228 Class 1 - 2
Max. Short Circuit Temperature	250 °C / 5 sec.	*Insulation*	XLPE IEC 60502-1
Bending Radius, min.	12 x D cable	*Color of Insulation*	Black or Blue
Max. Permessble Tensile	50 N/mm^2	*Sheath*	PVC IEC 60502-1
Rated current carrying capacity	Flat Formation	*Color of Sheath*	Black

Application

The power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. These cables are with very low dielectric losses and are used as power cables in power centers, switchgear and industrial plants, in local energy distribution, where there is no risk of mechanical damage (externally, indoors), underground or in cable ducts.

RE – solid round shaped conductor
RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
1x1,5	RE	5,5	45	1000	12,1	39	32
1x2,5	RE	6,0	55	1000	7,41	51	42
1x4	RE	6,4	73	1000	4,61	66	56
1x6	RE	6,9	94	1000	3,08	82	71
1x10	RM	8,1	138	1000	1,83	109	96
1x16	RM	9,1	205	1000	1,15	139	128
1x25	RM	10,7	305	1000	0,727	179	173
1x35	RM	11,6	395	1000	0,524	213	212
1x50	RM	12,9	525	1000	0,387	251	258
1x70	RM	14,8	755	1000	0,268	307	328
1x95	RM	16,7	995	1000	0,193	366	404
1x120	RM	18,3	1260	1000	0,153	416	471
1x150	RM	20,3	1560	1000	0,124	465	541
1x185	RM	22,3	1890	1000	0,0991	526	626
1x240	RM	25,0	2430	1000	0,0754	610	749
1x300	RM	27,7	2995	1000	0,0601	689	864
1x400	RM	30,9	3980	1000	0,0470	788	1018
1x500	RM	34,8	4990	1000	0,0366	889	1173
1x630	RM	39,1	6050	1000	0,0283	917	1186

YXV - R / N2XY / XP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Two Cores / Copper Conductor / XLPE insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		Cable Structure	
Core temperature, max.	90 °C in Operation	*Conductor*	IEC 60228 Class 1 - 2
Max. Short Circuit Temperature	250 °C / 5 sec.	*Insulation*	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	*Color of Insulation*	Brown, Blue
Max. Permessble Tensile	50 N/mm^2	*Filler*	IEC 60502-1
Rated current carrying capacity	One system	*Sheath*	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. It is used in power plants, switchgear industry plants, local energy distribution. Where the risk of mechanical damage is high (outside, inside), underground or used in cable ducts.

RE – solid round shaped conductor
RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
2x1,5	RE	11,1	150	1000	12,1	39	32
2x2,5	RE	11,9	190	1000	7,41	51	42
2x4	RE	12,8	255	1000	4,61	66	56
2x6	RE	13,8	305	1000	3,08	82	71
2x10	RM	16,2	450	1000	1,83	109	96
2x16	RM	18,2	620	1000	1,15	115	125
2x25	RM	21,4	910	1000	0,727	145	155
2x35	RM	23,2	1140	1000	0,524	175	195
2x50	RM	25,7	1470	1000	0,387	210	235
2x70	RM	29,5	2030	1000	0,268	255	300
2x95	RM	33,7	2710	1000	0,193	310	370
2x120	RM	37,2	3380	1000	0,153	355	430
2x150	RM	40,9	4100	1000	0,124	400	490
2x185	RM	45,6	5100	1000	0,0991	455	570
2x240	RM	50,9	6600	500	0,0754	530	680
2x300	RM	56,7	8250	500	0,0601	605	785
2x400	RM	63,2	10500	500	0,0470	690	860

YXV - U, YXV - R, / N2XY / XP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Three Cores / Copper Conductor / XLPE insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		Cable Structure	
Core temperature, max.	90 °C in Operation	*Conductor*	IEC 60228 Class 1 - 2
Max. Short Circuit Temperature	250 °C / 5 sec.	*Insulation*	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	*Color of Insulation*	Brown,Black,Grey
Max. Permessble Tensile	50 N/mm^2	*Filler*	IEC 60502-1
Rated current carrying capacity	One system	*Sheath*	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. It is used in power plants, switchgear industry plants, local energy distribution. Where the risk of mechanical damage is high (outside, inside), underground or used in cable ducts.

RE – solid round shaped conductor
RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x1,5	RE	11,6	180	1000	12,1	30	24
3x2,5	RE	12,4	230	1000	7,41	40	32
3x4	RE	13,4	300	1000	4,61	52	42
3x6	RE	14,5	370	1000	3,08	64	53
3x10	RM	17,0	550	1000	1,83	86	73
3x16	RM	19,2	700	1000	1,15	111	96
3x25	RM	22,7	1150	1000	0,727	143	130
3x35	RM	24,6	1500	1000	0,524	173	160
3x50	RM	27,3	1950	1000	0,387	205	195
3x70	RM	31,6	2750	1000	0,268	252	247
3x95	RM	35,9	3600	1000	0,193	303	305
3x120	RM	39,6	4500	1000	0,153	346	356
3x150	RM	44,2	5600	500	0,124	390	407
3x185	RM	48,9	6900	500	0,0991	441	469
3x240	RM	54,5	8900	500	0,0754	511	551
3x300	RM	60,7	11000	250	0,0601	580	638
3x400	RM	67,9	14500	250	0,0470	663	746

YXV - R / N2XY / XP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Copper Conductor / XLPE insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	90 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	***Insulation***	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown,cBlack,cGrey, Blue
Max. Permessble Tensile	50 N/mm^2	***Filler***	IEC 60502-1
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. It is used in power plants, switchgear industry plants, local energy distribution. Where the risk of mechanical damage is high (outside, inside), underground or used in cable ducts.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x16 + 10	RM	20,6	840	1000	1,15	111	96
3x25 + 16	RM	24,3	1290	1000	0,727	143	130
3x35 + 16	RM	26,5	1600	1000	0,524	173	160
3x50 + 25	RM	30,2	2100	1000	0,387	205	195
3x70 + 35	RM	35,4	3000	1000	0,268	252	247
3x95 + 50	RM	39,9	4000	1000	0,193	303	305
3x120 + 70	RM	44,6	5300	500	0,153	346	356
3x150 + 70	RM	49	6300	500	0,124	390	407
3x185 + 95	RM	54,5	7800	500	0,0991	441	469
3x240 + 120	RM	61,1	10150	500	0,0754	511	551
3x300 + 150	RM	67,4	12400	250	0,0601	580	638

YXV - U, YXV - R, / N2XY / XP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Cores / Copper Conductor / XLPE insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





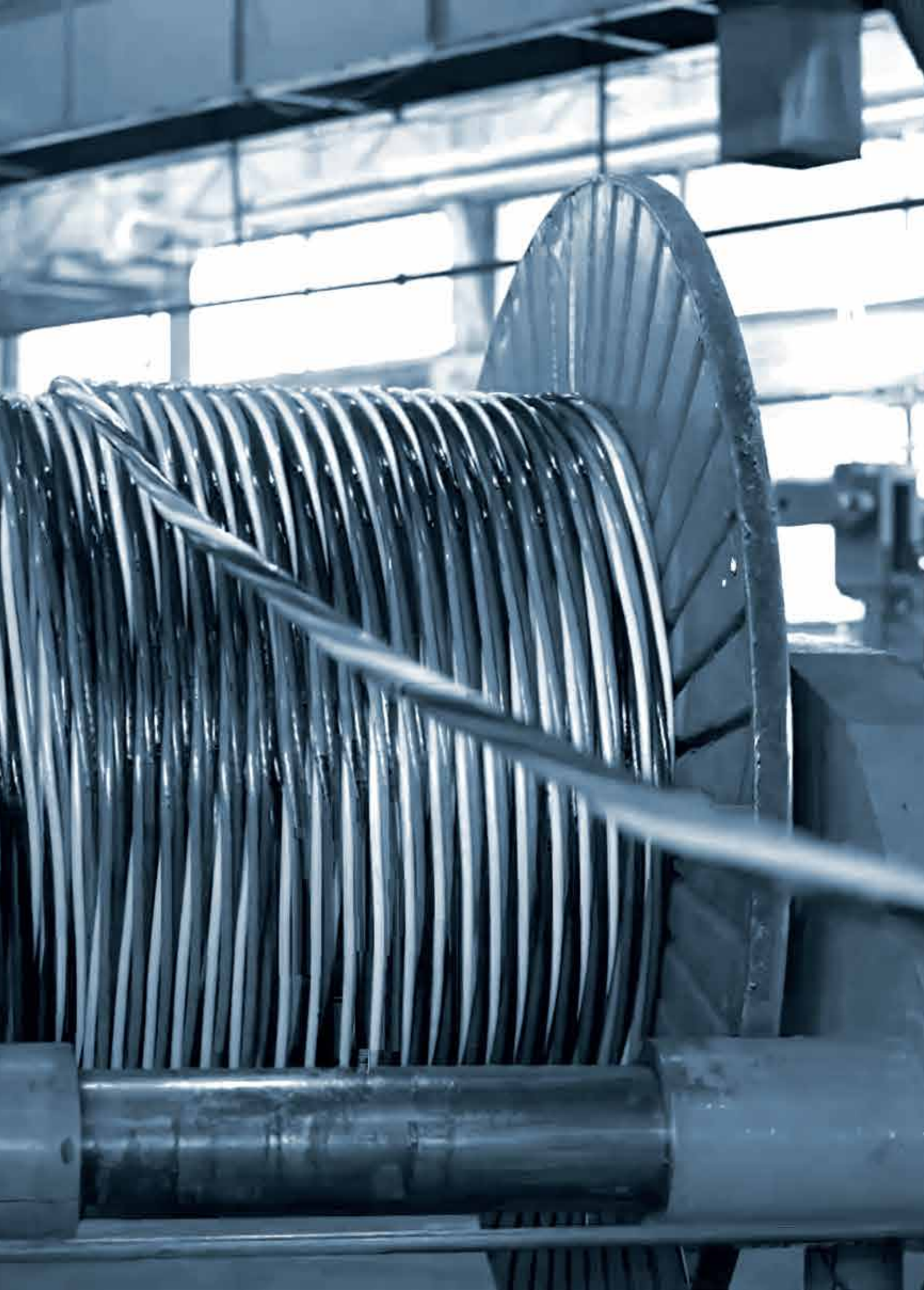
Technical Data		Cable Structure	
Core temperature, max.	90 °C in Operation	Conductor	IEC 60228 Class 1 - 2
Max. Short Circuit Temperature	250 °C / 5 sec.	Insulation	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	Color of Insulation	Blue, Brow, Grey, Black
Max. Permessble Tensile	50 N/mm^2	Filler	IEC 60502-1
Rated current carrying capacity	One system	Sheath	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. It is used in power plants, switchgear industry plants, local energy distribution. Where the risk of mechanical damage is high (outside, inside), underground or used in cable ducts.

RE – solid round shaped conductor
RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
4x1,5	RE	12,3	190	1000	12,1	30	24
4x2,5	RE	13,2	240	1000	7,41	40	32
4x4	RE	14,3	340	1000	4,61	52	42
4x6	RE	15,5	460	1000	3,08	64	53
4x10	RM	18,4	640	1000	1,83	86	73
4x16	RM	20,8	910	1000	1,15	111	96
4x25	RM	24,7	1410	1000	0,727	143	130
4x35	RM	26,9	1900	1000	0,524	173	160
4x50	RM	30,1	2400	1000	0,387	205	195
4x70	RM	35,3	3400	1000	0,268	252	247
4x95	RM	39,6	4600	1000	0,193	303	305
4x120	RM	44,4	6000	500	0,153	346	356
4x150	RM	48,9	7300	500	0,124	390	407
4x185	RM	54,2	8900	500	0,0991	441	469
4x240	RM	61,0	11500	250	0,0754	511	551
4x300	RM	67,4	14200	250	0,0601	580	638
4x400	RM	74,2	18750	250	0,0470	663	746



YAVV / NAYY / PP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Cores / Aluminum Conductor / PVC insulated / PE Tape / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	IEC 60228 Class 1 - 2
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey
Max. Permessble Tensile	30 N/mm^2	***Filler***	IEC 60502-1 / PE Tape
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0,6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear, as distribution cables, places where the risk of mechanical damage is high, outdoors, indoors, underground or used in cable ducts.

SM - multiwire sector shaped conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Cable Diameter (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x50	SM	24,6	1000	0,387	185	159
3x70	SM	27,0	1000	0,268	228	202
3x95	SM	30,7	1000	0,193	275	244
3x120	SM	33,1	500	0,153	313	282
3x150	SM	36,8	500	0,124	353	324
3x185	SM	40,6	500	0,0991	399	371
3x240	SM	45,6	500	0,0754	464	436
3x300	SM	50,2	250	0,0601	524	481

YAVV / NAYY / PP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Aluminum Conductor / PVC insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey, Blue
Max. Permessble Tensile	30 N/mm^2	***Filler***	IEC 60502-1
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0,6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear, as distribution cables, places where the risk of mechanical damage is high, outdoors, indoors, underground or used in cable ducts.

SM - multiwire sector shaped conductor
RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Cable Diameter (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x50 + 25	SM/RM	24,4	1000	10,641	142	124
3x70 + 35	SM/RM	27,4	1000	0,443	176	158
3x95 + 50	SM/RM	32,0	1000	0,320	211	160
3x120 + 70	SM/RM	35,0	1000	0,253	242	220
3x150 + 70	SM/RM	38,8	1000	0,206	270	252
3x185 +95	SM/RM	43,2	500	0,164	308	289
3x240 + 120	SM/RM	49,0	500	0,125	363	339
3x300 +150	SM/RM	54,2	500	0,100	412	377

YAVV / NAYY / PP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Cores / Aluminum Conductor / PVC insulated / PE Tape/ PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey, Blue
Max. Permessble Tensile	30 N/mm^2	***Filler***	IEC 60502-1 / PE Tape
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0,6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear, as distribution cables, places where the risk of mechanical damage is high, outdoors, indoors, underground or used in cable ducts.

SM - multiwire sector shaped conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Cable Diameter (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	m	ohm/km	Under Ground 20 °C	In Air 30 °C
4x50	SM	25,4	1000	0,641	142	124
4x70	SM	28,6	1000	0,443	176	158
4x95	SM	33,0	1000	0,320	211	160
4x120	SM	36,0	1000	0,253	242	220
4x150	SM	40,0	1000	0,206	270	252
4x185	SM	44,4	500	0,164	308	289
4x240	SM	50,2	500	0,125	363	339
4x300	SM	55,4	500	0,100	412	377
4x400	SM	63,6	500	0,0778	475	444

YAVV / NAYY / PP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Cores / Aluminum Conductor / PVC insulated / PE Tape/ PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey, Blue
Max. Permessble Tensile	30 N/mm^2	***Filler***	IEC 60502-1 / PE Tape
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0,6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear, as distribution cables, places where the risk of mechanical damage is high, outdoors, indoors, underground or used in cable ducts.

SM - multiwire sector shaped conductor
RE – solid round conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Cable Diameter (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	m	ohm/km	Under Ground 20 °C	In Air 30 °C
4x50 + 1,5	SM/RE	34,0	1000	0,641	142	124
4x70 + 1,5	SM/RE	38,5	1000	0,443	176	158
4x95 + 1,5	SM/RE	43,5	1000	0,320	211	160
4x120 + 1,5	SM/RE	48,0	1000	0,253	242	220
4x150 + 1,5	SM/RE	53,0	1000	0,206	270	252
4x185 +1,5	SM/RE	59,0	500	0,164	308	289
4x240 + 1,5	SM/RE	66,0	500	0,125	363	339


INKACABLE

YVV / NYY / PP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Copper Conductor / PVC insulated / PE Tape / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey
Max. Permessble Tensile	50 N/mm^2	***Filler***	IEC 60502-1 / PE Tape
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0,6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear and industrial facilities, as the power cable in the distribution, in places where the risk of mechanical damage is high (outside, inside), underground and cable used in channels.

SM - multiwire sector shaped conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Cable Diameter (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x50	SM	24,6	1000	0,387	185	159
3x70	SM	27,0	1000	0,268	228	202
3x95	SM	30,7	1000	0,193	275	244
3x120	SM	33,1	500	0,153	313	282
3x150	SM	36,8	500	0,124	353	324
3x185	SM	40,6	500	0,0991	399	371
3x240	SM	45,6	500	0,0754	464	436
3x300	SM	50,2	250	0,0601	524	481

YVV / NYY / PP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Copper Conductor / PVC insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey, Blue
Max. Permessble Tensile	50 N/mm^2	***Filler***	IEC 60502-1
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0,6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear and industrial facilities, as the power cable in the distribution, in places where the risk of mechanical damage is high (outside, inside), underground and cable used in channels.

SM - multiwire sector shaped conductor
RM – multiwire round shaped conductor

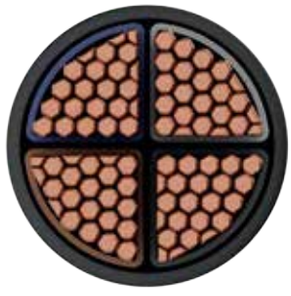
DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Cable Diameter (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x50 + 25	SM/RM	24,4	1000	0,387	185	159
3x70 + 35	SM/RM	27,4	1000	0,268	228	202
3x95 + 50	SM/RM	32,0	1000	0,193	275	244
3x120 + 70	SM/RM	35,0	500	0,153	313	282
3x150 + 70	SM/RM	38,8	500	0,124	353	324
3x185 +95	SM/RM	43,2	500	0,0991	399	371
3x240 + 120	SM/RM	49,0	500	0,0754	464	436

YVV / NYY / PP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Copper Conductor / PVC insulated / PE Tape / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey, Blue
Max. Permessble Tensile	50 N/mm^2	***Filler***	IEC 60502-1 / PE Tape
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of PVC are designed for distribution and supply of consumers with nominal voltage 0,6/1 kV and frequency 50 Hz in industrial installation and urban networks. It is used in power centers, switchgear and industrial facilities, as the power cable in the distribution, in places where the risk of mechanical damage is high (outside, inside), underground and cable used in channels.

SM - multiwire sector shaped conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Cable Diameter (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	m	ohm/km	Under Ground 20 °C	In Air 30 °C
4x50	SM	25,4	1000	0,387	185	159
4x70	SM	28,6	1000	0,268	228	202
4x95	SM	33,0	1000	0,193	275	244
4x120	SM	36,0	500	0,153	313	282
4x150	SM	40,4	500	0,124	353	324
4x185	SM	44,4	500	0,0991	399	371
4x240	SM	50,2	500	0,0754	464	436



YAXV / NA2XY / XP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Aluminum Conductor / XLPE insulated / PE Tape / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	90 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	***Insulation***	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey
Max. Permessble Tensile	30 N/mm^2	***Filler***	IEC 60502-1 / PE Tape
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. These cables are characterized by very low dielectric losses; are used in energy centers, distribution and industrial facilities, local power transmission, where there is high risk of mechanical damage such as the power cable in the distribution (internal, external), is placed underground or in ducts.

SM - multiwire sector shaped conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Cable Diameter (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x50	SM	23,2	1000	0,641	157	147
3x70	SM	25,9	1000	0,443	195	189
3x95	SM	28,9	1000	0,320	233	232
3x120	SM	31,6	1000	0,253	266	270
3x150	SM	35,3	1000	0,206	299	308
3x185	SM	39,2	1000	0,164	340	357
3x240	SM	43,8	1000	0,125	401	435
3x300	SM	48,0	500	0,100	455	501

YAXV / NA2XY / XP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Aluminum Conductor / XLPE insulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		Cable Structure	
Core temperature, max.	90 °C in Operation	*Conductor*	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	*Insulation*	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	*Color of Insulation*	Brown, Black, Grey, Blue
Max. Permessble Tensile	30 N/mm^2	*Filler*	IEC 60502-1
Rated current carrying capacity	One system	*Sheath*	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. These cables are characterized by very low dielectric losses; are used in energy centers, distribution and industrial facilities, local power transmission, where there is high risk of mechanical damage such as the power cable in the distribution (internal, external), is placed underground or in ducts.

SM - multiwire sector shaped conductor
RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Cable Diameter (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x50 + 25	SM/RM	22,8	1000	0,641	157	147
3x70 + 35	SM/RM	26,2	1000	0,443	195	189
3x95 + 50	SM/RM	30,0	1000	0,320	233	232
3x120 + 70	SM/RM	33,4	1000	0,253	266	270
3x150 + 70	SM/RM	37,2	1000	0,206	299	308
3x185 + 95	SM/RM	41,6	1000	0,164	340	357
3x240 + 120	SM/RM	47,0	500	0,125	401	435
3x300 + 150	SM/RM	51,8	500	0,100	455	501

YAXV / NA2XY / XP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Aluminum Conductor / XLPE insulated / PE Tape / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	90 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	***Insulation***	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey, Blue
Max. Permessble Tensile	30 N/mm^2	***Filler***	IEC 60502-1 / PE Tape
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. These cables are characterized by very low dielectric losses; are used in energy centers, distribution and industrial facilities, local power transmission, where there is high risk of mechanical damage such as the power cable in the distribution (internal, external), is placed underground or in ducts.

SM – multiwire sector shaped conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Cable Diameter (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	m	ohm/km	Under Ground 20 °C	In Air 30 °C
4x50	SM	23,8	1000	0,641	157	147
4x70	SM	27,4	1000	0,443	195	189
4x95	SM	31,0	1000	0,320	233	232
4x120	SM	34,4	1000	0,253	266	270
4x150	SM	38,4	1000	0,206	299	308
4x185	SM	42,8	1000	0,164	340	357
4x240	SM	48,2	500	0,125	401	435
4x300	SM	53,0	500	0,100	455	501
4x400	SM	61,2	500	0,0778	526	592

YAXV / NA2XY / XP 00-A

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Aluminum Conductor / XLPE insulated / PE Tape / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		Cable Structure	
Core temperature, max.	90 °C in Operation	*Conductor*	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	*Insulation*	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	*Color of Insulation*	Brown, Black, Grey, Blue
Max. Permessble Tensile	30 N/mm^2	*Filler*	IEC 60502-1 / PE Tape
Rated current carrying capacity	One system	*Sheath*	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. These cables are characterized by very low dielectric losses; are used in energy centers, distribution and industrial facilities, local power transmission, where there is high risk of mechanical damage such as the power cable in the distribution (internal, external), is placed underground or in ducts.

SM - multiwire sector shaped conductor
RE – solid round conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Cable Diameter (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	m	ohm/km	Under Ground 20 °C	In Air 30 °C
4x50 + 1,5	SM/RE	31,5	1000	0,641	157	147
4x70 + 1,5	SM/RE	36,5	1000	0,443	195	189
4x95 + 1,5	SM/RE	41,0	1000	0,320	233	232
4x120 + 1,5	SM/RE	46,0	1000	0,253	266	270
4x150 + 1,5	SM/RE	51,0	1000	0,206	299	308
4x185 + 1,5	SM/RE	56,5	1000	0,164	340	357
4x240 + 1,5	SM/RE	63,0	500	0,125	401	435



YXV / N2XY / XP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Three Cores / Copper Conductor / XLPE insulated / PE Tape / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	90 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	***Insulation***	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey
Max. Permessble Tensile	50 N/mm^2	***Filler***	IEC 60502-1 / PE Tape
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. It is used in power plants, switchgear industry plants, local energy distribution. Where the risk of mechanical damage is high (outside, inside), underground or used in cable ducts.

SM – multiwire sector shaped conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Cable Diameter (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x50	SM	23,2	1000	0,387	205	195
3x70	SM	25,9	1000	0,268	252	247
3x95	SM	28,9	1000	0,193	303	305
3x120	SM	31,2	500	0,153	346	356
3x150	SM	35,3	500	0,124	390	407
3x185	SM	39,2	500	0,0991	441	469
3x240	SM	43,8	250	0,0754	511	551
3x300	SM	48,0	250	0,0601	580	638

YXV / N2XY / XP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Copper Conductor / XLPE nsulated / Filler / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	90 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	***Insulation***	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Blue
Max. Permessble Tensile	50 N/mm^2	***Filler***	IEC 60502-1
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. It is used in power plants, switchgear industry plants, local energy distribution. Where the risk of mechanical damage is high (outside, inside), underground or used in cable ducts.

RM – multiwire round shaped conductor
SM - multiwire sector shaped conductor

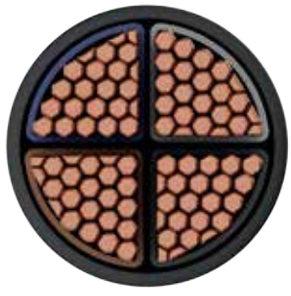
DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Cable Diameter (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x50 + 25	SM/RM	22,8	1000	0,387	205	195
3x70 + 35	SM/RM	26,2	1000	0,268	252	247
3x95 + 50	SM/RM	30,0	1000	0,193	303	305
3x120 + 70	SM/RM	33,4	500	0,153	346	356
3x150 + 70	SM/RM	37,2	500	0,124	390	407
3x185 + 95	SM/RM	41,6	500	0,0991	441	469
3x240 + 120	SM/RM	47,0	500	0,0754	511	551

YXV / N2XY / XP 00

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Core / Copper Conductor / XLPE insulated / PE Tape / PVC Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	90 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	***Insulation***	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey, Blue
Max. Permessble Tensile	50 N/mm^2	***Filler***	IEC 60502-1 / PE Tape
Rated current carrying capacity	One system	***Sheath***	PVC IEC 60502-1
		Color of Sheath	Black

Application

The power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. It is used in power plants, switchgear industry plants, local energy distribution. Where the risk of mechanical damage is high (outside, inside), underground or used in cable ducts.

SM – multiwire sector shaped conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Cable Diameter (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	m	ohm/km	Under Ground 20 °C	In Air 30 °C
4x50	SM	23,8	1000	0,387	205	195
4x70	SM	27,4	1000	0,268	252	247
4x95	SM	31,0	1000	0,193	303	305
4x120	SM	34,4	500	0,153	346	356
4x150	SM	38,4	500	0,124	390	407
4x185	SM	42,8	500	0,0991	441	469
4x240	SM	48,2	250	0,0754	511	551


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YAXZ1-R / NA2XH

Standard: TS HD 604 S1, TS IEC 60502-1, VDE 0276 - 604

One Core / Aluminium Conductor / XLPE insulated / HFFRLS Sheath
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	90 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	***Insulation***	XLPE IEC 60502-1
Bending Radius, min.	12 x D cable	***Color of Insulation***	Black or Blue
Max. Permessble Tensile	30 N/mm^2	***Sheath***	IEC 60502-1 HFFRLS
Rated current carrying capacity	Flat Formation	***Color of Sheath***	Black

Application

The NA2XH/YAXZ1 power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. Usualy are used in hotels, schools, high-rise buildings, hospitals, computing centers and business centers where people are concentrated. It is used in fire sensitive areas.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES				
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
1x25	RM	10,7	140	1000	1,200	150	135
1x35	RM	11,6	170	1000	0,868	164	163
1x50	RM	12,9	240	1000	0,641	195	200
1x70	RM	14,8	315	1000	0,443	238	254
1x95	RM	16,7	415	1000	0,320	284	313
1x120	RM	18,3	490	1000	0,253	323	366
1x150	RM	20,3	585	1000	0,206	361	420
1x185	RM	22,3	735	1000	0,164	408	486
1x240	RM	25,0	935	1000	0,125	476	585
1x300	RM	27,7	1145	1000	0,100	537	675
1x400	RM	30,9	1510	1000	0,0778	616	798
1x500	RM	34,8	1760	1000	0,0605	699	926

YAXZ1 - R / NA2XH

Standard: TS HD 604 S1, TS IEC 60502-1, VDE 0276 - 604

Two Cores / Aluminum Conductor / XLPE insulated / HFFRLS Filler / HFFRLS Sheath
Halogen Free Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		Cable Structure	
Core temperature, max.	90 °C in Operation	*Conductor*	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	*Insulation*	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	*Color of Insulation*	Brown, Blue
Max. Permessble Tensile	30 N/mm^2	*Filler*	IEC 60502-1
Rated current carrying capacity	One system	*Sheath*	IEC 60502-1 HFFRLS
		Color of Sheath	Black

Application

The NA2XH/YAXZ1 power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. Usualy are used in hotels, schools, high-rise buildings, hospitals, computing centers and business centers where people are concentrated. It is used in fire sensitive areas.

RM - multiwire round shaped conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES				
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
2x25	RM	21,4	590	1000	1,20	110	115
2x35	RM	23,2	690	1000	0,868	130	140
2x50	RM	25,7	885	1000	0,641	155	175
2x70	RM	29,5	1185	1000	0,443	195	220
2x95	RM	33,7	1520	1000	0,320	235	270

YAXZ1 - R / NA2XH

Standard: TS HD 604 S1, TS IEC 60502-1, VDE 0276 - 604

Three Cores / Aluminum Conductor / XLPE insulated / HFFRLS Filler / HFFRLS Sheath
Halogen Free Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	90 °C in Operation	***Conductor***	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	***Insulation***	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey
Max. Permessble Tensile	30 N/mm^2	***Filler***	IEC 60502-1
Rated current carrying capacity	One system	***Sheath***	IEC 60502-1 HFFRLS
		Color of Sheath	Black

Application

The NA2XH/YAXZ1 power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. Usualy are used in hotels, schools, high-rise buildings, hospitals, computing centers and business centers where people are concentrated. It is used in fire sensitive areas.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES				
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x25	RM	22,7	640	1000	1,20	111	100
3x35	RM	24,6	810	1000	0,868	132	122
3x50	RM	27,3	1095	1000	0,641	157	147
3x70	RM	31,6	1400	1000	0,443	195	189
3x95	RM	35,9	1755	1000	0,320	233	232
3x120	RM	39,6	2210	1000	0,253	266	270
3x150	RM	44,2	2800	1000	0,206	299	308
3x185	RM	48,9	3410	1000	0,164	340	357
3x240	RM	54,5	4360	1000	0,125	401	435
3x300	RM	60,7	5320	500	0,100	455	501
3x400	RM	67,9	7020	500	0,0778	526	592

YAXZ1 - R / NA2XH

Standard: TS HD 604 S1, TS IEC 60502-1, VDE 0276 - 604

Multi Core / Aluminum Conductor / XLPE insulated / HFFRLS Filler / HFFRLS Sheath
Halogen Free Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		Cable Structure	
Core temperature, max.	90 °C in Operation	*Conductor*	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	*Insulation*	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	*Color of Insulation*	Brown, Black, Grey, Blue
Max. Permessble Tensile	30 N/mm^2	*Filler*	IEC 60502-1
Rated current carrying capacity	One system	*Sheath*	IEC 60502-1 HFFRLS
		Color of Sheath	Black

Application

The NA2XH/YAXZ1 power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. Usualy are used in hotels, schools, high-rise buildings, hospitals, computing centers and business centers where people are concentrated. It is used in fire sensitive areas.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES				
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x25 + 16	RM/RM	24,3	760	1000	1,20	111	100
3x35 + 16	RM/RM	26,5	880	1000	0,868	132	122
3x50 + 25	RM/RM	30,2	1210	1000	0,641	157	147
3x70 + 35	RM/RM	35,4	1650	1000	0,443	195	189
3x95 + 50	RM/RM	39,9	2080	1000	0,320	233	232
3x120 + 70	RM/RM	44,6	2600	1000	0,253	266	270
3x150 + 70	RM/RM	49,0	3210	1000	0,206	299	308
3x185 + 95	RM/RM	54,5	3900	1000	0,164	340	357
3x240 + 120	RM/RM	61,1	4850	500	0,125	401	435
3x300 + 150	RM/RM	67,4	5960	500	0,100	455	501

YAXZ1 - R / NA2XH

Standard: TS HD 604 S1, TS IEC 60502-1, VDE 0276 - 604

Multi Core / Aluminum Conductor / XLPE insulated / HFFRLS Filler / HFFRLS Sheath
Halogen Free Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		Cable Structure	
Core temperature, max.	90 °C in Operation	Conductor	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	Insulation	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	Color of Insulation	Brown, Black, Grey, Blue
Max. Permessble Tensile	30 N/mm^2	Filler	IEC 60502-1
Rated current carrying capacity	One system	Sheath	IEC 60502-1 HFFRLS
		Color of Sheath	Black

Application

The NA2XH/YAXZ1 power cables with insulation of XLPE are used for electricity supply in Low Voltage (LV) installation systems with a voltage rating of 0,6/1 kV. Usualy are used in hotels, schools, high-rise buildings, hospitals, computing centers and business centers where people are concentrated. It is used in fire sensitive areas.

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
4x25	RM	24,7	810	1000	1,20	111	100
4x35	RM	26,9	950	1000	0,868	132	122
4x50	RM	30,1	1255	1000	0,641	157	147
4x70	RM	35,3	1700	1000	0,443	195	189
4x95	RM	39,6	2200	1000	0,320	233	232
4x120	RM	44,4	2800	1000	0,253	266	270
4x150	RM	48,9	3410	1000	0,206	299	308
4x185	RM	54,2	4110	1000	0,164	340	357
4x240	RM	61,0	5360	500	0,125	401	435
4x300	RM	67,4	6520	500	0,100	455	501
4x400	RM	74,2	8620	500	0,0778	526	592


iNKACABLE

YXZ1 - U, YXZ1-R / N2XH

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

One Core / Copper Conductor / XLPE insulated / HFFRLS Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		Cable Structure	
Core temperature, max.	90 °C in Operation	*Conductor*	IEC 60228 Class 1 - 2
Max. Short Circuit Temperature	250 °C / 5 sec.	*Insulation*	XLPE IEC 60502-1
Bending Radius, min.	12 x D cable	*Color of Insulation*	Black or Blue
Max. Permessble Tensile	50 N/mm^2	*Filler*	IEC 60502-1
Rated current carrying capacity	Flat Formation	*Sheath*	IEC 60502-1 HFFRLS
		Color of Sheath	Black

Application

The N2XH / YXZ1 power cables wlth nsulaton of XLPE are used for electrlclty supply In Low Voltage (LV) Installaton systems wlth a voltage ratlng of 0,6/1 kV. Usualy are used in hotels, schools, high-rise buildings, hospitals, computing centers and business centers where people are concentrated. It is used in fire sensitive areas.

RE – solid round shaped conductor
RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
1x4	RE	6,4	65	1000	4,61	66	56
1x6	RE	6,9	93	1000	3,08	82	71
1x10	RM	8,1	120	1000	1,83	109	96
1x16	RM	9,1	190	1000	1,15	139	128
1x25	RM	10,7	290	1000	0,727	179	173
1x35	RM	11,6	395	1000	0,524	213	212
1x50	RM	12,9	505	1000	0,387	251	258
1x70	RM	14,8	760	1000	0,268	307	328
1x95	RM	16,7	955	1000	0,193	366	404
1x120	RM	18,3	1195	1000	0,153	416	471
1x150	RM	20,3	1510	1000	0,124	465	541
1x185	RM	22,3	1840	1000	0,0991	526	626
1x240	RM	25,0	2340	1000	0,0754	610	749
1x300	RM	27,7	3010	1000	0,0601	689	864
1x400	RM	30,9	3920	1000	0,0470	788	1018
1x500	RM	34,8	4950	1000	0,0366	889	1173

YXZ1 - U, YXZ1-R / N2XH

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Two Cores / Copper Conductor / XLPE insulated / Filler / HFFRLS Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		Cable Structure	
Core temperature, max.	90 °C in Operation	Conductor	IEC 60228 Class 1 - 2
Max. Short Circuit Temperature	250 °C / 5 sec.	Insulation	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	Color of Insulation	Brown, Blue
Max. Permessble Tensile	50 N/mm^2	Filler	IEC 60502-1
Rated current carrying capacity	One system	Sheath	IEC 60502-1 HFFRLS
		Color of Sheath	Black

Application

The N2XH / YXZ1 power cables with nsulaton of XLPE are used for electricity supply in Low Voltage (LV) Installaton systems with a voltage rating of 0,6/1 kV. Usualy are used in hotels, schools, high-rise buildings, hospitals, computing centers and business centers where people are concentrated. It is used in fire sensitive areas.

RM - multiwire round shaped conductor
RE – solid round conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
2x1,5	RE	11,1	155	1000	12,1	639	32
2x2,5	RE	11,9	190	1000	7,41	51	42
2x4	RE	12,8	235	1000	4,61	66	56
2x6	RE	13,8	300	1000	3,08	82	71
2x10	RM	16,2	425	1000	1,83	109	96
2x16	RM	18,2	615	1000	1,15	115	125
2x25	RM	21,4	940	1000	0,727	145	155
2x35	RM	23,2	1210	1000	0,524	175	195
2x50	RM	25,7	1490	1000	0,387	210	235
2x70	RM	29,5	2090	1000	0,268	255	300
2x95	RM	33,7	2770	1000	0,193	310	370
2x120	RM	37,2	3480	1000	0,153	355	430
2x150	RM	40,9	4280	1000	0,124	400	490
2x185	RM	45,6	5300	1000	0,0991	455	570
2x240	RM	50,9	6910	500	0,0754	530	680
2x300	RM	56,7	8520	500	0,0601	605	785
2x400	RM	63,2	10800	500	0,0470	690	860

YXZ1 - U, YXZ1-R / N2XH

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Three Cores / Copper Conductor / XLPE insulated / Filler / HFFRLS Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	90 °C in Operation	***Conductor***	IEC 60228 Class 1 - 2
Max. Short Circuit Temperature	250 °C / 5 sec.	***Insulation***	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	***Color of Insulation***	Brown, Black, Grey
Max. Permessble Tensile	50 N/mm^2	***Filler***	IEC 60502-1
Rated current carrying capacity	One system	***Sheath***	IEC 60502-1 HFFRLS
		Color of Sheath	Black

Application

The N2XH / YXZ1 power cables wlth nsulaton of XLPE are used for electrlclty supply In Low Voltage (LV) Installaton systems wlth a voltage ratlng of 0,6/1 kV. Usualy are used in hotels, schools, high-rise buildings, hospitals, computing centers and business centers where people are concentrated. It is used in fire sensitive areas.

RE – solid round shaped conductor
RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x1,5	RE	11,6	155	1000	12,1	30	24
3x2,5	RE	12,4	205	1000	7,41	40	32
3x4	RE	13,4	245	1000	4,61	52	42
3x6	RE	14,5	345	1000	3,08	64	53
3x10	RM	17,0	510	1000	1,83	86	73
3x16	RM	19,2	690	1000	1,15	111	96
3x25	RM	22,7	1140	1000	0,727	143	130
3x35	RM	24,6	1510	1000	0,524	173	160
3x50	RM	27,3	1940	1000	0,387	205	195
3x70	RM	31,6	1980	1000	0,268	252	247
3x95	RM	35,9	3590	1000	0,193	303	305
3x120	RM	39,6	4510	1000	0,153	346	355
3x150	RM	44,2	5520	500	0,124	390	407
3x185	RM	48,9	6820	500	0,0991	441	469
3x240	RM	54,5	8910	500	0,0754	511	551
3x300	RM	60,7	11000	250	0,0601	580	638
3x400	RM	67,9	14150	250	0,0470	663	746

YXZ1-R / N2XH

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Cores / Copper Conductor / XLPE insulated / Filler / HFFRLS Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		Cable Structure	
Core temperature, max.	90 °C in Operation	Conductor	IEC 60228 Class 2
Max. Short Circuit Temperature	250 °C / 5 sec.	Insulation	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	Color of Insulation	Brown, Black, Grey, Blue
Max. Permessble Tensile	50 N/mm^2	Filler	IEC 60502-1
Rated current carrying capacity	One system	Sheath	IEC 60502-1 HFFRLS
		Color of Sheath	Black

Application

The N2XH / YXZ1 power cables with nsulaton of XLPE are used for electricity supply in Low Voltage (LV) Installaton systems with a voltage rating of 0,6/1 kV. Usualy are used in hotels, schools, high-rise buildings, hospitals, computing centers and business centers where people are concentrated. It is used in fire sensitive areas.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
3x16 + 10	RM	20,6	840	1000	1,15	111	96
3x25 + 16	RM	24,3	1360	1000	0,727	143	130
3x35 + 16	RM	26,5	1660	1000	0,524	173	160
3x50 + 25	RM	30,2	2210	1000	0,387	205	195
3x70 + 35	RM	35,4	3120	1000	0,268	252	247
3x95 + 50	RM	39,9	4150	1000	0,193	303	305
3x120 + 70	RM	44,6	5100	500	0,153	346	355
3x150 + 70	RM	49,0	6150	500	0,124	390	407
3x185 + 95	RM	54,5	7700	500	0,0991	441	469
3x240 + 120	RM	61,1	10000	500	0,0754	511	551
3x300 + 150	RM	67,4	12350	250	0,0601	580	638

YXZ1 - U, YXZ1-R / N2XH

Standard: TS IEC 60502-1 / IEC 60502 – 1 / HD 603 S1 / VDE 0276

Multi Cores / Copper Conductor / XLPE insulated / Filler / HFFRLS Sheath
Low Voltage Energy Cable
Rated Voltage: Uo/U; 0,6 / 1 kV





Technical Data		Cable Structure	
Core temperature, max.	90 °C in Operation	*Conductor*	IEC 60228 Class 1 - 2
Max. Short Circuit Temperature	250 °C / 5 sec.	*Insulation*	XLPE IEC 60502-1
Bending Radius, min.	15 x D cable	*Color of Insulation*	Brown, Black, Grey, Blue
Max. Permessble Tensile	50 N/mm^2	*Filler*	IEC 60502-1
Rated current carrying capacity	One system	*Sheath*	IEC 60502-1 HFFRLS
		Color of Sheath	Black

Application

The N2XH / YXZ1 power cables wlth nsulaton of XLPE are used for electrlclty supply In Low Voltage (LV) Installaton systems wlth a voltage ratlng of 0,6/1 kV. Usualy are used in hotels, schools, high-rise buildings, hospitals, computing centers and business centers where people are concentrated. It is used in fire sensitive areas.

RE – solid round shaped conductor
RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES			
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)	
No x mm^2	–	mm	kg/km	m	ohm/km	Under Ground 20 °C	In Air 30 °C
4x1,5	RE	12,3	1200	1000	12,1	30	24
4x2.5	RE	13,2	240	1000	7,41	40	32
4x4	RE	14,3	310	1000	4,61	52	42
4x6	RE	15,5	390	1000	3,08	64	53
4x10	RM	18,4	570	1000	1,83	86	73
4x16	RM	20,8	840	1000	1,15	111	96
4x25	RM	24,7	1250	1000	0,727	143	130
4x35	RM	26,9	1650	1000	0,524	173	160
4x50	RM	30,1	2200	1000	0,387	205	195
4x70	RM	35,3	3100	1000	0,268	252	247
4x95	RM	39,6	4150	1000	0,193	303	305
4x120	RM	44,4	5400	500	0,153	346	355
4x150	RM	48,9	7000	500	0,124	390	407
4x185	RM	54,2	8700	500	0,0991	441	469
4x240	RM	61,0	11300	250	0,0754	511	551
4x300	RM	67,4	13900	250	0,0601	580	638
4x400	RM	74,2	18000	250	0,0470	663	746



H07V - U / NYA & P/J

Standard: TS EN 50525-2-31, TS IEC 60227; VDE 0295/ IEC60228

Copper Conductor / PVC insulated / NON-SHEATHED
Installation Cables
Rated Voltage: Uo/U; 450/750 V





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	Solid Copper Conductor Class 1
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC
Rated Voltage	450 / 750 V	***Color of Insulation***	Black
Bending Radius, min.	12 x D Cable	***Sheath***	No Sheath

Application

H07V -U is a Single core cable with solid copper conductor and is with PVC insulation. It is used in the connections of mobile devices, in closed and dry places inside the building, under or above the plaster, where there is little mechanical stress. Nominal voltage 450/750 V.

RE – solid round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES		
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)
No x mm^2	–	mm	kg/km	m	ohm/km	In Air 30 °C
1x1,5	RE	2,8	20	100	12,1	24
1x2,5	RE	3,3	31	100	7,41	32
1x4	RE	3,8	46	100	4,61	42
1x6	RE	4,3	65	100	3,08	54
1x10	RE	5,5	108	100	1,83	73

H07V - R / NYA & P/M

Standard: TS EN 50525-2-31, TS IEC 60227

Copper Conductor / PVC insulated / NON-SHEATHED
Installation Cables
Rated Voltage: Uo/U; 450/750 V





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	Multi Stranded Conductor
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC
Rated Voltage	450 / 750 V	***Color of Insulation***	Black
Bending Radius, min.	6 x D Cable	***Sheath***	No Sheath

Application

H07V - R is a PVC insulated non-sheathed, multiwire cable with copper conductor, that is preferably for installation indoors, in cable ducts and in industrial plants or switching stations, under ground installation, It is used in pipes under or over the plaster, Nominal voltage 450/750 V.

RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES		
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)
No x mm^2	–	mm	kg/km	m	ohm/km	In Air 30 °C
1x10	RM	5,9	110	100	1,83	73
1x16	RM	7,0	170	1000	1,15	98
1x25	RM	8,6	260	1000	0,727	129
1x35	RM	9,5	355	1000	0,524	158
1x50	RM	10,9	485	1000	0,387	198
1x70	RM	12,7	685	1000	0,268	245
1x95	RM	14,8	940	1000	0,193	292
1x120	RM	16,2	1175	1000	0,153	344
1x150	RM	18,0	1440	1000	0,124	391
1x185	RM	20,1	1800	1000	0,0991	448
1x240	RM	22,9	2370	1000	0,0754	528

H07V - K / NYAF & P/FJ

Standard: TS EN 50525-2-31, TS IEC 60227

Copper Conductor / PVC insulated / NON-SHEATHED
Installation Cables
Rated Voltage: Uo/U; 450/750 V





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	Flexible copper conductor Class 5
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC
Rated Voltage	450 / 750 V	***Color of Insulation***	Black
Bending Radius, min.	6 x D Cable	***Sheath***	No Sheath

Application

H07V - K is a PVC insulated non-sheathed, single core cable with flexible copper conductor, that is used in the connections of mobile devices, in dry places inside the building, It is used in pipes under or over the plaster, Nominal voltage 450/750 V.

Flexible - Fine stranded copper conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES		
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)
No x mm^2	–	mm	kg/km	m	ohm/km	In Air 30 °C
1x1,5	FLEXIBLE	3,0	20	100	13,3	24
1x2,5	FLEXIBLE	3,7	31	100	7,98	32
1x4	FLEXIBLE	4,2	45	100	4,95	42
1x6	FLEXIBLE	4,8	63	100	3,30	54
1x10	FLEXIBLE	6,6	110	100	1,91	73
1x16	FLEXIBLE	7,9	165	100	1,21	98
1x25	FLEXIBLE	9,7	250	1000	0,780	129
1x35	FLEXIBLE	11,1	345	1000	0,554	158
1x50	FLEXIBLE	13,2	495	1000	0,386	198
1x70	FLEXIBLE	15,1	680	1000	0,272	245
1x95	FLEXIBLE	17,5	895	1000	0,206	292
1x120	FLEXIBLE	19,3	1125	1000	0,161	344
1x150	FLEXIBLE	21,6	1410	1000	0,129	391
1x185	FLEXIBLE	24,0	1750	1000	0,106	448
1x240	FLEXIBLE	27,1	2300	1000	0,0801	528

H03VV - F / TTR & PP/L

Standard: TS EN 50525-2-11/ DIN VDE 0281 (HD 21.5)

Multi Core / Copper Conductor / PVC insulated / PVC sheath
Installation Cables
Rated Voltage: Uo/U; 300/300 V





Technical Data		***Cable Structure***	
Core temperature, max.	70 °C in Operation	***Conductor***	Flexible Copper Conductor Class 5
Max. Short Circuit Temperature	160 °C / 5 sec.	***Insulation***	PVC
Rated Voltage	300 / 300 V	***Color of Insulation***	Brown, Blue
Bending Radius, min.	6 x D Cable	***Sheath***	PVC
Rated current carrying capacity	One System	***Color of Sheath***	White or Black

Application

H03VV-F is a flexible cable that consists of more than one core from fine stranded copper conductor and is with PVC insulation. It is safe in closed and dry places where there is little mechanical stress. It is used in household appliances, steamy and humid places. Nominal voltage 300/300 V.

Flexible - Fine stranded copper conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES		
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)
No x mm^2	–	mm	kg/km	m	ohm/km	A
2x0,50	FLEXIBLE	5,7	47,8	100	39,0	8
2x0,75	FLEXIBLE	5,9	54,0	100	26,0	13
3x0,50	FLEXIBLE	5,5	44,5	100	39,0	8
3x0,75	FLEXIBLE	5,7	52,8	100	26,0	13
4x0,50	FLEXIBLE	6,0	54,4	100	39,0	8
4x0,75	FLEXIBLE	6,3	64,9	100	26,0	13

H05VV -F / TTR & PP/J

Standard: TS EN 50525-2-11 / VDE 0281 - 5 (HD 21.5)

Multi Core / Copper Conductor / PVC insulated / Filler (PVC) / PVC Sheath
Installation Cables
Rated Voltage: Uo/U; 300/500kV





Technical Data	
Core temperature, max.	70 °C in Operation
Max. Short Circuit Temperature	160°C / 5 sec.
Rated Voltage	300 / 500 V
Bending Radius, min.	6 x D Cable
Rated current carrying capacity	One system

Cable Structure	
Conductor	Flexible copper conductor Class 5
Insulation	PVC
Color of Insulation 2x - Brown, Blue 3x - Brown, Blue, Yellow/Green 4x - Brown, Black, Blue, Yellow/Green 5x - Brown, Black, Grey, Blue, Yellow/Green	
Sheath	PVC
Color of Sheath	White or Black

Application

H05VV-F is a flexible cable that consists of more than one core from fine stranded copper conductor and is with PVC insulation. It is safe in closed and dry places where there is little mechanical stress, It is used in household appliances, steamy and humid places. Nominal voltage 300/500 V.

Flexible - Fine stranded copper conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES		
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)
No x mm^2	–	mm	kg/km	m	ohm/km	In Air 30 °C
2x0,75	FLEXIBLE	6,7	70,4	100	26,0	13
2x1,0	FLEXIBLE	7,1	80,0	100	19,5	16
2x1,5	FLEXIBLE	8,1	106,0	100	13,3	20
2x2,5	FLEXIBLE	9,8	159,3	100	7,98	27
2x4,0	FLEXIBLE	11,1	214,0	100	4,95	34
3x0,75	FLEXIBLE	6,6	68,1	100	26,0	13
3x1,0	FLEXIBLE	7,0	79,0	100	19,5	16
3x1,5	FLEXIBLE	8,3	111,1	100	13,3	20
3x2,5	FLEXIBLE	10,1	170,5	100	7,98	27
3x4,0	FLEXIBLE	11,5	234,6	100	4,95	34
4x0,75	FLEXIBLE	7,2	83,0	100	26,0	13
4x1,0	FLEXIBLE	7,8	100,8	100	19,5	16
4x1,5	FLEXIBLE	9,2	141,3	100	13,3	20
4x2,5	FLEXIBLE	11,0	210,3	100	7,98	27
4x4,0	FLEXIBLE	12,6	291,2	100	4,95	34
5x0,75	FLEXIBLE	8,1	103,4	100	26,0	13
5x1,0	FLEXIBLE	8,5	120,7	100	19,5	16
5x1,5	FLEXIBLE	10,3	174,7	100	13,3	20
5x2,5	FLEXIBLE	12,3	259,5	100	7,98	27
5x4,0	FLEXIBLE	14,1	366,1	100	4,95	34

NVV / NYM / PP

Standard: TS HD 21.4 S2 / HD 21.4 S2 / VDE 0250/204

Multi Core / Copper Conductor / PVC insulated / Filler / PVC Sheath
Installation Cables
Rated Voltage: Uo/U; 300/500 V





Technical Data	
Core temperature, max.	70 °C in Operation
Max. Short Circuit Temperature	160 °C / 5 sec.
Rated Voltage	300 / 500 V
Bendlng Radlus, mln.	6 x D Cable
Rated current carrying capacity	One system

Cable Structure	
Conductor	DIN VDE 0295
Insulation	DIN VDE 0207/4
Color of Insulation 2x - Brown, Blue 3x - Brown, Blue, Yellow/Green 4x - Brown, Black, Blue, Yellow/Green 5x - Brown, Black, Grey, Blue, Yellow/Green	
Filler	PVC
Sheath	PVC
Color of Sheath	White or Black

Application

Cable for industrial and home installations. NYM / NVV Is a cable that conslsts of more than one copper core and is with PVC insulation. It is safe in dry place for indoors or outdoors and is not recommended to plant underground. Nominal voltage 300/500 V.

RE – solid round shaped conductor
RM – multiwire round shaped conductor

DIMENSIONS AND WEIGHTS				ELECTRICAL PROPERTIES		
Number of cores x Nominal Cross Section	Conductor Shape	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Length of Cable (Approximately)	Conductor DC Resistance at 20 °C	Rated current carrying capacity (A)
No x mm²	–	mm	kg/km	m	ohm/km	A
2x1,5	RE	8,7	121	100	12,1	18
2x2,5	RE	9,9	164	100	7,41	26
2x4	RE	10,8	212	100	4,61	34
2x6	RE	11,8	271	100	3,08	44
2x10	RM	15,9	470	1000	1,83	61
2x16	RM	17,9	648	1000	1,15	82
2x25	RM	21,5	974	1000	0,727	108
2x35	RM	24,1	1278	1000	0,524	135
3x1,5	RE	9,2	139	100	12,1	18
3x2,5	RE	10,4	191	100	7,41	26
3x4	RE	11,5	252	100	4,61	34
3x6	RE	12,9	340	100	3,08	44
3x10	RM	16,8	560	1000	1,83	61
3x16	RM	19,4	810	1000	1,15	82
3x25	RM	23,3	1200	1000	0,727	108
3x35	RM	25,7	1580	1000	0,524	135
4x1,5	RE	9,9	167	100	12,1	18
4x2,5	RE	11,3	230	100	7,41	26
4x4	RE	12,9	320	100	4,61	34
4x6	RE	14,5	435	100	3,08	44
4x10	RM	18,4	700	1000	1,83	61
4x16	RM	21,2	1000	1000	1,15	82
4x25	RM	25,9	1550	1000	0,727	108
4x35	RM	28,1	1990	1000	0,524	135
5x1,5	RE	10,7	195	100	12,1	14
5x2,5	RE	12,3	270	100	7,41	20
5x4	RE	14,3	400	100	4,61	26
5x6	RE	15,7	520	100	3,08	33
5x10	RM	20,4	870	1000	1,83	46
5x16	RM	24,0	1270	1000	1,15	62
5x25	RM	28,3	1880	1000	0,727	81
5x35	RM	31,2	2450	1000	0,524	101

H1Z2Z2-K / PV1 - F

Standard: EN 50618, TS EN 50618

Single Core / Copper Flexible Conductor / LSFROH Insulated / LSFROH Sheath
Solar Cable
Nominal Voltage - DC: 1.8 kV, AC: 0,6/1 kV





Technical Data	
Operating temperature	-40 C° to +120 C°
Short circuit temperature	250 C° (max 5s)
Min. Transport and Laying Temperature	-25 C°
Min. bending radius D<12 at (20 ± 10) °C, (D-Cable Diameter)	3 x D Cable
Min. bending radius D>12 at (20 ± 10) °C, (D-Cable Diameter)	4 x D Cable

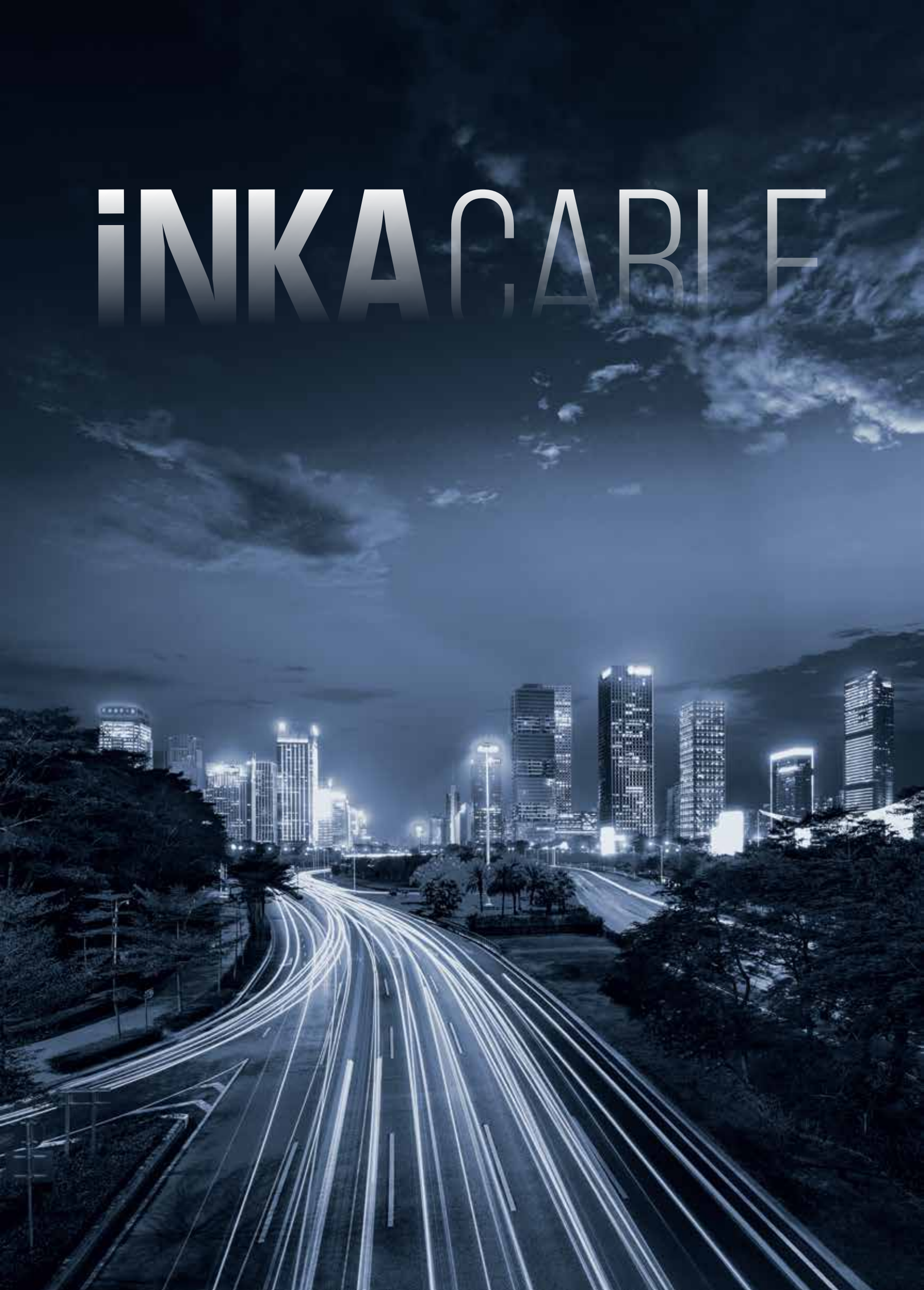
Cable Structure	
Conductor	Class 5 - EN 60228, IEC 60228, DIN VDE 0295
Insulation	LSFROH - EN 50618, TS EN 50618
Sheath	LSFROH - EN 50618, TS EN 50618

Application

It is specially designed for connections between various elements of systems such as solar panel arrays and inverters in photovoltaic applications. It is used unprotected, in pipes or similar closed systems, in internal or external fixed installations.

DIMENSIONS AND WEIGHTS			ELECTRICAL PROPERTIES		
Nominal Cross Section	Outer Diameter of Cable (Approximately)	Weight of Cable (Approximately)	Current Flow In The Air (60 °C)	Conductor DC Resistance at 20 °C	Short Circuit Current Resistance
mm^2	mm	kg/km	A	ohm/km	kA
1,5	4,6	29,8	30	13,7	0,19
2,5	5,1	40,7	41	8,21	0,32
4	5,6	56,4	55	5,09	0,50
6	6,2	76,8	70	3,39	0,76
10	7,6	121,0	98	1,95	1,26
16	9,1	179,5	132	1,24	2,02
25	11,1	275,8	176	0,795	3,15
35	12,7	378,1	218	0,565	4,41
50	14,8	531,3	276	0,393	6,30
70	16,9	728,1	347	0,277	8,82
95	19,1	942,2	416	0,21	11,97
120	21,1	1197,7	488	0,164	15,12
150	23,6	1508,4	566	0,132	18,90
185	26,4	1797,0	644	0,108	23,31
240	29,5	2377,6	775	0,0817	30,24

iNKACABLE



ABC & NFA2X & XOO-A & XOO/O-A & AER

Standard: TS HD 626 S1 & HD 626 S1

Multiwire Aluminium Conductor / XLPE insulated / Suppoting Neutral Conductor
Low Voltage Bundle Energy Cable
Rated Voltage: Uo/U; 0,6/1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	90 °C in Operation	***Conductor***	TS HD 626 S1
Max. Short Circuit Temperature	250°C / 5 sec.	***Insulation***	TS HD 626 S1
Rated current carrying capacity	One system	***Color of Insulation***	Black, XLPE TS HD 626 S1

Application

Power cable with insulation of XLPE that is used for overhead power distribution, and in places instead of bare conductor in low voltage line networks. Sites that are close to dangers and are dangerous for human life, places where underground cables are not used instead of uninsulated lines, streets and road lighting networks, rural areas, are used in houses.This cable types are designed for aerial power lines.

Number of wires x Nominal Cross Section	INSULATED CONDUCTORS (AL)							INSULATED CONDUCTORS (ALLOY)			CABLE	
	Number of wires and cross section	Number of Wires	Average Dimater of Conductor (Approx.)	Conductor DC Resistance at 20 °C	Current carrying capacity	Number of wires and cross section	Current carrying capacity	Average Diameter of Supporting Wire	Minimum Brekaing Strength	Conductor DC Resistance at 20 °C	Average Dimater of Bending (Approx.)	Weight of Cable (Approx.)
No x mm^2	mm^2	Pieces	mm	ohm/km	A	mm^2	A	mm	kN	ohm/km	mm	kg/km
1x16 + 1x16 + 25	1x16	1	4,4	1,910	70	1x16	60	5,9	7,4	1,38	15	220
1x25 + 1x16 + 35	1x25	7	5,9	1,910	80	1x16	60	6,9	10	0,986	19	250
1x35 + 1x16 + 50	1x35	7	6,9	0,868	95	1x16	60	8,1	14	0,72	22	320
3x16 + 1x16 + 25	3x16	1	4,4	1,910	60	1x16	60	5,9	7	1,38	22	350
3x25 + 1x16 + 35	3x25	7	5,9	1,200	80	1x16	60	6,9	10,3	0,986	26	480
3x35 + 1x16 + 50	3x35	7	6,9	0,868	95	1x16	60	8,1	14,2	0,72	30	630
3x50 + 1x16 + 70	3x50	7	8,1	0,641	120	1x16	60	9,7	20,6	0,493	33	800
3x70 + 1x16 + 95	3x70	7	9,7	0,443	150	1x16	60	11,4	27,9	0,363	38	1100
4x16 + 1x16 + 25	4x16	1	4,4	1,910	60	1x16	60	5,9	7,4	1,38	25	415
4x25 + 1x16 + 35	4x25	7	5,9	1,200	80	1x16	60	6,9	10,3	0,986	30	615
4x35 + 1x16 + 50	4x35	7	6,9	0,868	95	1x16	60	8,1	14,2	0,72	34	800
4x50 + 1x16 + 70	4x50	7	8,1	0,641	120	1x16	60	9,7	20,6	0,493	40	1050
4x70 + 1x16 + 95	4x70	7	9,7	0,443	150	1x16	60	11,4	27,9	0,363	47	1410

ABC & NFA2X & XOO-A & XOO/O-A & AER

Standard: TS HD 626 S1 & HD 626 S1

Multiwire Aluminium Conductor / XLPE insulated / Suppoting Neutral Conductor
Low Voltage Bundle Energy Cable
Rated Voltage: Uo/U; 0,6/1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	90 °C in Operation	***Conductor***	TS HD 626 S1
Max. Short Circuit Temperature	250 °C / 5 sec.	***Insulation***	TS HD 626 S1
Rated current carrying capacity	One system	***Color of Insulation***	Black, XLPE TS HD 626 S1

Application

Power cable with insulation of XLPE that is used for overhead power distribution, and in places instead of bare conductor in low voltage line networks. Sites that are close to dangers and are dangerous for human life, places where underground cables are not used instead of uninsulated lines, streets and road lighting networks, rural areas, are used in houses.This cable types are designed for aerial power lines.

Number of wires x Nominal Cross Section	INSULATED CONDUCTORS (AL)					INSULATED CONDUCTORS (ALLOY)			CABLE	
	Number of wires and cross section	Number of Wires	Average Dimater of Conductor (Approx.)	Conductor DC Resistance at 20 °C	Current carrying capacity	Average Diameter of Supporting Wire	Minimum Brekaing Strength	Conductor DC Resistance at 20 °C	Average Dimater of Bending (Approx.)	Weight of Cable (Approx.)
No x mm^2	mm^2	Pieces	mm	ohm/km	A	mm	kN	ohm/km	mm	kg/km
1x16 + 25	1x16	1	4,4	1,91	75	5,9	7,4	1,38	15	135
1x25 +35	1x25	7	5,9	1,20	100	6,9	10,3	0,986	17	210
1x35 + 50	1x35	7	6,9	0,868	125	8,1	14,2	0,72	20	265
3x16 + 25	3x16	1	4,4	1,91	70	5,9	7,4	1,38	22	270
3x25 + 35	3x25	7	5,9	1,20	90	6,9	10,3	0,986	26	410
3x35 + 50	3x35	7	6,9	0,868	115	8,1	14,2	0,72	30	565
3x50 + 70	3x50	7	8,1	0,641	140	9,7	20,6	0,493	35	750
3x70 + 95	3x70	7	9,7	0,443	180	11,4	27,9	0,363	41	1050
3x120 + 95	3x120	19	13,0	0,253	250	11,4	27,9	0,363	47	1560
4x16 + 25	4x16	1	4,4	1,91	70	5,9	7,4	1,38	24	380
4x25 + 35	4x25	7	5,9	1,20	90	6,9	10,3	0,986	28	495
4x35 + 50	4x35	7	6,9	0,868	115	8,1	14,2	0,72	32	680
4x50 + 70	4x50	7	8,1	0,641	140	9,7	20,6	0,493	38	910
4x70 + 95	4x70	7	9,7	0,443	180	11,4	27,9	0,363	45	1340

ABC & NFA2X & XOO-A & XOO/O-A & AER

Standard: TS HD 626 S1 & HD 626 S1

Multiwire Aluminium Conductor / XLPE insulated / Suppoting Neutral Conductor
Low Voltage Bundle Energy Cable
Rated Voltage: Uo/U; 0,6/1 kV





Technical Data		***Cable Structure***	
Core temperature, max.	90 °C in Operation	***Conductor***	TS HD 626 S1
Max. Short Circuit Temperature	250°C / 5 sec.	***Insulation***	TS HD 626 S1
Rated current carrying capacity	One system	***Color of Insulation***	Black, XLPE TS HD 626 S1

Application

Rated Cross Section

Copper

4
6

Number of wires x Nominal Cross Section	INSULATED CONDUCTORS (AL)								INSULATED CONDUCTORS (ALLOY)			CABLE	
	Number of wires and cross section	Number of Wires	Average Dimater of Conductor (Approx.)	Conductor DC Resistance at 20 °C	Current carrying capacity	Number of wires and cross section	Average Dimater of Conductor (Approx.)	Conductor DC Resistance at 20 °C	Average Diameter of Supporting Wire	Minimum Brekaing Strength	Conductor DC Resistance at 20 °C	Average Dimater of Bending (Approx.)	Weight of Cable (Approx.)
No x mm²	mm²	Pieces	mm	ohm/km	A	mm²		ohm/km	mm		ohm/km	mm	kg/km
2x16	2x16	1	4,4	1,91	80	-	-	-	-	-	-	14	130
2x25	2x25	7	5,9	1,20	100	-	-	-	-	-	-	17	185
4x16	4x16	1	4,4	1,91	70	-	-	-	-	-	-	17	270
4x25	4x25	7	5,9	1,20	90	-	-	-	-	-	-	21	390
4x35	4x35	7	6,9	0,868	115	-	-	-	-	-	-	25	550
4x50	4x50	7	8,1	0,641	140	-	-	-	-	-	-	29	720
3x25 + 25	3x25	7	5,9	1,20	90	1x25	5,9	1,20	-	-	-	24	410
3x25 + 54,6	3x25	7	5,9	1,20	90	-	-	-	9,5	16,1	0,630	31	520
3x35 + 54,6	3x35	7	6,9	0,868	115	-	-	-	9,5	16,1	0,630	33	640
3x50 + 54,6	3x50	7	8,1	0,64	140	-	-	-	9,5	16,1	0,630	36	780
3x95 + 54,6	3x95	7	11,4	0,320	210	-	-	-	9,5	16,1	0,630	41	1230
4x50 + 2x25	4x50	7	8,1	0,641	140	2x25	5,9	1,20	9,5	16,1	0,630	36	930
4x95 + 2x25	4x95	19	11,4	0,320	210	2x25	5,9	1,20	9,5	16,1	0,630	42	1550
3x35 + 2x25 + 54,6	3x35	7	6,9	0,868	115	2x25	5,9	1,20	9,5	16,1	0,630	36	850
3x50 + 2x25 + 54,6	3x50	7	8,1	0,641	140	2x25	5,9	1,20	9,5	16,1	0,630	37	970
3x70 + 2x25 + 54,6	3x70	7	9,7	0,443	180	2x25	5,9	1,20	9,5	16,1	0,630	39	1190
3x95 + 2x25 + 54,6	3x95	19	11,4	0,320	210	2x25	5,9	1,20	9,5	16,1	0,630	42	1450



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 (UO/U) 6/10 KV.

DESIGNATION CODE FOR HARMONIZED CABLES ACCORDING TO DIN VDE 0281/DIN VDE 0292

CONSTRUCTION REFERENCE

H 05 V — 25 G 0.75

IDENTIFICATION OF DESIGNATION
A – AUTHORIZED NATIONAL STANDARDS
H – HARMONIZED STANDARDS

NOMINAL VOLTAGE U
01 – 100 V
03 – 300/300 V
05 – 300/500 V
07 – 450/750V

INSULATION MATERIAL
B – (EPR) ETHYLENE-PROPYLENE RUBBER (EVA) ETHYLENE-VINYLACETAT COPOLYMER (CR) CHLOROPRENE RUBBER FOR WELDING CABLES
G – (NR A./O. SR) NATURAL A./O. SYNTHETIC RUBBER (SIR) SILICONE RUBBER
N2 – (PVC) POLYVINYL CHLORIDE
R – (PVC) POLYVINYL CHLORIDE HEAT-RESISTANT
S – V3 (PVC) POLYVINYL CHLORIDE LOW-TEMPERATURE V4 (PVC) POLYVINYL CHLORIDE CROSS-LINKED
V2 – (PE) POLYETHYLENE CROSS-LINKED

STRUCTURAL ELEMENTS
C – SCREEN
Q4 – (PA) ADDITIONAL POLYMIDE CORE JACKET
T – DDITIONAL TEXTILE BRAIDING OVER LAID-UP CORES
T6 – SHEATH/JACKET MATERIAL

SHEATH/JACKET MATERIAL
B – (EPR) ETHYLENE-PROPYLENE RUBBER
J – GLASS FIBRE BRAID
N – (CR) CHLOROPRENE RUBBER
N2 – (CR) CHLOROPRENE RUBBER FOR WELDING CABLES
N4 – (CR) CHLOROPRENE RUBBER HEAT-RESISTANT
Q – (PUR) POLYURETHANE
R – (NR A./O. SR) NATURAL A./O. SYNTHETIC RUBBER
T – TEXTILE BRAID
T2 – TEXTILE BRAID WITH FLAME RETARDANT COMPOUND
V – (PVC) POLYVINYL CHLORIDE
V2 – (PVC) POLYVINYL CHLORIDE HEAT-RESISTANT
V3 – (PVC) POLYVINYL CHLORIDE LOW-TEMPERATURE
V4 – (PVC) POLYVINYL CHLORIDE CROSS-LINKED
V5 – (PVC) POLYVINYL CHLORIDE OIL-RESISTANT

SPECIAL STRUCTURAL FEATURES
D3 – STRESS-RELIEVING ELEMENT (SUPPORT WIRE)
D5 – CENTRE CORE (NO SUPPORTING ELEMENTS)
FM – TELECOMMUNICATION CORES INTEGRATED IN POWER CABLES
H – FLAT, SEPARABLE CABLE (TWIN CABLE)
H2 – FLAT, NON-SEPARABLE CABLE (TWO-CORE SHEATHED CABLE)
H6 – FLAT, NON-SEPARABLE CABLE (MULTI-CORE AND MULTIPLE SHEATHED CABLE)
H7 – TWO-LAYER INSULATING JACKET
H8 – SPIRAL CABLES

CONDUCTOR TYPE
D – FINELY STRANDED, FOR WELDING CABLES
E – (VERY) FINELY STRANDED, FOR WELDING CABLES
F – FINELY STRANDED, FOR CABLES FOR FIXED INSTALLATION
H – (VERY) FINELY STRANDED, FOR FLEXIBLE CABLES
K – FINELY STRANDED, FOR CABLES FOR FIXED INSTALLATION
R – MULTIPLE-WIRE, ROUND, CLASS 2
U – SINGLE-WIRE, ROUND, CLASS 1
Y – TINSEL WIRE, DIN 47104

NUMBER OF CORES

EARTH CORE
G – WITH EARTH CORE
X – WITHOUT EARTH CORE

CONDUCTOR NOMINAL CROSS SECTION IN MM^2

EXAMPLES
H07V-U 2.5 BLACK (ACCORDING TO DIN VDE 0281) HARMONIZED PVC-INSULATED SINGLE-CORE SHEATHED CABLE, 2.5 MM^2, SINGLE-CORE, NOMINAL VOLTAGE 750 V
H07RN-F 3G 1.5 (ACCORDING TO DIN VDE 0282) HARMONIZED RUBBER-SHEATHED CABLE FOR MEDIUM TENSILE LOADS, THREE-CORE 1.5 MM^2, FINELY STRANDED, GREEN-YELLOW EARTH CORE, NOMINAL VOLTAGE 750 V

ELECTRICAL PARAMETERS OF THE CABLES

RESISTANCE OF CONDUCTORS

The maximum permitted electric resistance of conductors for direct current at 20°C is shown in the Table 1. At the working temperature the conductor resistance for direct current is calculated according to the following formula:

$$R' = R_0 [1+\alpha(t-20)]$$

R_0 - resistance of conductor for direct current at 20°C (table 1) Ω/km;
α - coefficient of electric resistance change with the temperature, which for copper is:
α = 0,003931°C and for aluminum: α = 0,00403/°C;
t - working temperature of conductor in °C;
Due to the influence of surface (skin) effect and vicinity effect of adjacent conductors, metal sheathes and armoring of cable, the resistance of conductor for alternating current is slightly higher than the resistance of conductors for direct current. The table 2 shows the values of conductor resistance for direct R' and alternating current R, at the temperature of 70°C (for PVC and PE) and at 90°C (for XLPE) for three-core cables of 1kV, without metal sheath or armoring

Table 1

Cross section	Maximum resistance at 20°C for D.C. current	
mm2	Cu (Ω/km)	Al (Ω/km)
1.5	12.1	-
2.5	7.41	-
4	4.61	-
6	3.08	-
10	1.83	-
16	1.15	1.91
25	0.727	1.2
35	0.524	0.868
50	0.387	0.641
70	0.268	0.443
95	0.193	0.320
120	0.153	0.253
150	0.124	0.206
185	0.0991	0.164
240	0.0754	0.125
300	0.0601	0.100
400	0.0470	0.0778
500	0.0366	0.0605

Table 2

Rated Cross Section mm²	Copper				Aluminium			
	70°C (PVC, PE)		90°C (XLPE)		70°C (PVC, PE)		90°C (XLPE)	
	R' (DC)	R (AC)	R' (DC)	R (AC)	R' (DC)	R (AC)	R' (DC)	R (AC)
1.5	14.5	14.5	15.4	15.4	-	-	-	-
2.5	8.7	8.7	9.28	9.28	-	-	-	-
4	5.46	5.46	5.81	5.81	9.06	9.06	9.67	9.67
6	3.63	3.63	3.86	3.86	6.02	6.02	6.42	6.42
10	2.17	2.17	2.31	2.31	3.60	3.60	3.85	3.85
16	1.36	1.36	1.45	1.45	2.27	2.27	2.42	2.42
25	0.864	0.864	0.921	0.921	1.44	1.44	1.54	1.54
35	0.627	0.627	0.668	0.668	1.05	1.05	1.12	1.12
50	0.463	0.463	0.494	0.494	0.770	0.770	0.822	0.822
70	0.321	0.322	0.343	0.343	0.532	0.533	0.568	0.568
95	0.231	0.232	0.247	0.247	0.384	0.385	0.410	0.411
120	0.183	0.185	0.197	0.197	0.304	0.305	0.324	0.325
150	0.148	0.151	0.160	0.160	0.248	0.249	0.264	0.265
185	0.118	0.121	0.129	0.129	0.197	0.199	0.210	0.212
240	0.0902	0.0938	0.0998	0.0998	0.150	0.150	0.160	0.162
300	0.0719	0.0764	0.0812	0.0812	0.120	0.123	0.128	0.131

INDUCTIVITY COEFFICIENT

By three-core and single-core cables with round conductors which are not armored, the inductivity coefficient is calculated by means of the following formula:

$$L=0,1\left(0,5+2ln\frac{2s}{d}\right),mH/km$$

s - distance between conductor axis, mm
d - conductor diameter, mm
For armored cables the obtained value for inductivity coefficient should be increased by 30%.
The values of inductivity coefficient of three-core cables I kV, non-armored with round conductors and PVC and XLPE insulated are shown in tables N3 and 4. In the same tables are shown the relative values of voltage drop between the phases in volts per ampere and per kilometer of cable at relevant working temperatures of conductors, in three-phase systems, frequency 50Hz.

Table 3 - For PVC Cables

Cross section	Insulation thickness	L	Voltage drops * at 70°C (PVC)			
			Cu		Al	
			cos φ = 0,8	cos φ = 1	cos φ = 0,8	cos φ = 0,8
m m	m m	mH/km	V/A.km	V/A.km	V/A.km	V/A.km
1.5	0.9	0.341	20.2	25.1	-	-
2.5	0.9	0.316	12.2	15.1	-	-
4	1.0	0.318	7.67	9.46	12.7	15.7
6	1.0	0.296	5.13	6.29	8.42	10.4
10	1.0	0.277	3.10	3.76	5.08	6.24
16	1.0	0.262	1.97	2.36	3.23	3.93
25	1.2	0.252	1.28	1.50	2.07	2.49
35	1.2	0.244	0.952	1.09	1.54	1.82
50	1.4	0.243	0.721	0.802	1.14	1.33
70	1.4	0.235	0.523	0.558	0.815	0.923
95	1.6	0.234	0.398	0.402	0.610	0.667
120	1.6	0.229	0.331	0.320	0.497	0.528
150	1.8	0.230	0.284	0.262	0.420	0.431
185	2.0	0.244	0.241	0.210	0.349	0.345
240	2.2	0.288	0.204	0.162	0.258	0.263
300	2.4	0.277	0.180	0.132	0.244	0.213

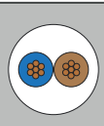
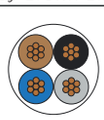
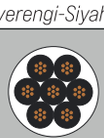
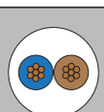
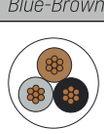
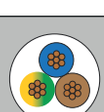
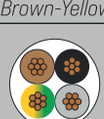
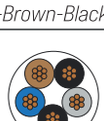
NOTE: In single phase systems the values of voltage drop from the table should be corrected by multiplying with factor: $2 / \sqrt{3} = ,155$

Table 4 - For XLPE Cables

Cross section	Insulation thickness	L	Voltage drops * at 90°C (XLPE)			
			Cu		Al	
			cos φ = 0,8	cos φ = 1	cos φ = 0,8	cos φ = 0,8
m m	m m	mH/km	V/A.km	V/A.km	V/A.km	V/A.km
1.5	0.7	0.327	21.4	26.7	-	-
2.5	0.7	0.304	13.0	16.1	-	-
4	0.7	0.287	8.14	10.1	13.5	16.7
6	0.7	0.270	5.44	6.69	8.98	11.1
10	0.7	0.254	3.28	4.00	5.42	6.67
16	0.7	0.243	2.09	2.51	3.43	4.19
25	0.9	0.244	1.36	1.59	2.21	2.67
35	0.9	0.231	1.00	1.16	1.63	1.94
50	1.0	0.229	0.759	0.856	1.21	1.42
70	1.1	0.226	0.549	0.549	0.861	0.984
95	1.1	0.221	0.414	0.428	0.641	0.712
120	1.2	0.220	0.345	0.341	0.552	0.563
150	1.4	0.221	0.294	0.277	0.439	0.459
185	1.6	0.222	0.251	0.223	0.366	0.367
240	1.7	0.220	0.210	0.173	0.296	0.280
300	1.8	0.218	0.184	0.141	0.253	0.227

NOTE: In single phase systems the values of voltage drop from the table should be corrected by multiplying with factor: $2 / \sqrt{3} = 1,155$

The insulation colors used in Installation and Low Voltage cables are as follows.
Cables available in our stock are shown in

Cable types	Number of veins	Type O (without yellow/green)	Type J (yellow/green)
INSTALLATION CABLES			
H03VV-F & PP/L H05VV-F & PP/J NYM & NVV & PP	2	 *Blue-Brown*	
	3	 *Gray-Brown-Black*	 *Blue-Brown-Yellow/Green*
	4	 *Blue-Brown-Black-Gray*	 *Black-Yellow/Green-Blue-Brown*
	5	 *Mavi-Kahverengi-Siyah-Gri-Siyah*	 *Mavi-Kahverengi-Siyah-Gri-Sarı/Yeşil*
	>5	 *Black with white number print*	 *Yellow/Green-Black with White Number Print*
0.6/1 kV LOW VOLTAGE CABLES			
YAVV & NAYY YVV & NYY YAXV & NA2XY YXV & N2XY YXZ1 & N2XH YVCV & NYCY	2	 *Blue-Brown*	
	3	 *Gray-Brown-Black*	 *Blue-Brown-Yellow/Green*
	4	 *Blue-Brown-Black-Gray*	 *Yellow/Green-Brown-Black-Gray*
	5	 *Mavi-Kahverengi-Siyah-Gri-Siyah*	 *Mavi-Kahverengi-Siyah-Gri-Sarı/Yeşil*
	>5	 *Black with white number print*	 *Yellow/Green-Black with White Number Print*

CURRENT CARRYING CAPACITY AND INDICATIONS FOR CALCULATION OF POWER CABLES AND WIRES

The guidelines for current carrying capacities of copper and aluminium are valid DIN VDE 0298 part 4 as well as DIN VDE 0276 part 603 and for the conversion factors DIN VDE 0276 part 1000.

The current carrying capacity of a cable should be limited in such a degree that all locations in a cable system which causes the generated heats under given proportions to lead safely in the environment.

The heat flow depends on the inner heat-resistance between conductor and outer surface of the cable and as well as from the heat emission to the surroundings.

The following recommended values are the current carrying capacity of cables for laying in earth and in air at normal operating conditions. Hints for the deviated operating conditions, see DIN VDE 0298 table 4 and DIN VDE 0276 part 603 and part 1000.

INDICATIONS FOR CALCULATION

· For Laying in Earth

- Deviating operating conditions with both conversion factors are to be considered, as these depend on both of specific heat resistance and the grade of load.
- EVU-load (load grade) is the maximum load factor of 0.7. The conversion factors for the load grades 0.5, 0.6, 0.85 and 1.0 are to be taken in tables DIN VDE 0276 part 603 and part 1000. Intermediate values can be interpolate (1.0 used for permanent load).
- Laying depth 0.7 m. The load capacity decreases with increasing of the laying depth. Usual depth of laying is 0.7 to 1.2 m.
- As normal value of the specific ground thermal resistivity in moist areas is selected with 1.0 K.m/W. For dry areas the chosen value is 2.5 K.m/W, under consideration of the applied usual bedding materials of sands.
- For favourable ground conditions or with thermal resisted bedding materials, lower value under well consolidation can be achieved.
- For individual case, the values and upon that the resulted current carrying loads are to be determined.

· For Laying in Air

- The values stated in the tables for outdoor laying in the air are defined for permanent operation.
- The arrangement of the cables is corresponded the presentation in table 3, DIN VDE 0276 part 1000.
- Conversion factors for other laying conditions and the heaping of cables are shown in tables 10 and 11, DIN VDE 0276 part 1000.
- The current carrying capacities of multi-core cables can be calculated by using the current load value for 3-core cables accord table 13 with help of the conversion factors.
- By using the cable channels of cable board underlays, etc., the air temperature will be increased. In this case the conversion to factors according to table 12 for deviating air temperature should be used.
- For outdoor installation in air, the ambient temperature is based on 30 °C.

· Radiation of heats and solar influence must be taken into consideration, where a good air circulation is needed.
· A sufficient large distance is to be retained between the cables and the heating elements, because badly insulated heating elements often raise additionally the temperature of the cable.
· Distance between the cable and the wall, floor or ceiling = 2 cm
· Distance between the cables being laid one above the other = 2 x D
· Distance between the cable systems being laid one above the other = 20 cm
· Distance between the cables being laid side by side = 2 x D

· Specific Ground Thermal Resistivity

- very moist area = 0.7 K.m/W
- moist area = 1.0 K.m/W
- dry area = 2.0 K.m/W
- very dry area = 3.0 K.m/W

INSTALLATION METHODS AND OPERATING CONDITIONS
POWER CABLES AND INSULATED WIRES FOR FIXED INSTALLATION

INSTALLATION METHODS AND OPERATING CONDITIONS
Power Cables and Insulated Wires for Fixed Installation

INSTALLATION METHOD TYPE A1
Single core cables in insulation tube in a thermally insulated wall.

INSTALLATION METHOD A2
Multicore cables or multicore plastic sheathed cables in the insulation tube in a thermally insulated wall, whereby the walls for the methods of installation employed comprise an outer weatherproof board, thermal insulation and an inner board of wood or materials similar to wood, having a temperature lag of 0.1 m2.K/W. The plastic or metal insulation tube is mounted so that it is very close to the inner wall without actually being in conduct with the wall.

INSTALLATION METHOD B1
Single core cables in insulation tube on a wooden wall.

INSTALLATION METHOD B2
Multicore cables or multicore plastic sheath cables in insulation tube on a wooden wall.

For both installation methods, the insulation tube must be secured so that the space between conduit and the wall surface is less than 0.3 times the diameter of the insulation tube. The plastic or metal insulation tube can be installed directly on the masonry construction or plastered surface, whereby the current carrying capacity of the cables or wires can then be higher. This problem is still being investigated by CENELEC.

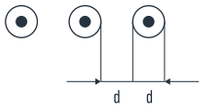
INSTALLATION METHOD C
Single core or multicore cables, or single core or multicore plastic-sheathed cables on a wooden wall.
The cables or insulated wires shall be mounted so that the space from the wall surface is less than 0.3 times the outer diameter of the cable or insulated wire. The current carrying capacity can be increased when installed directly on or in the masonry construction as well as underneath the plaster.

INSTALLATION METHODS E, F AND G
Single core or multicore cables, or single core or multicore plastic-sheathed cables, installed in the open air.
The cable or insulated wire shall be installed so that the dissipation of heat is not impeded, whereby allowance shall be made for heating by other sources and for irradiation by sunshine. Natural convection shall not be obstructed. The space from the cable or insulated wire by each bordering surface shall be 0.3 times the outside diameter. A space equal to the one of the outside diameter is sufficient for single core cables and plastic-sheathed wires in order to meet the current carrying requirements for an installation in the open air.

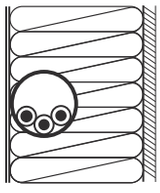
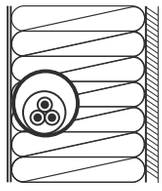
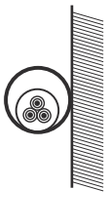
LAYING CONDITIONS FOR POWER CABLES

As laying depth, the mathematical distance to the cable axis - for triangular bunched laying, the distance of the bundle axis to the earth surface of 70 cm is chosen. Within increased laying depth the load ratings will be mathematically reduced.
Hereby the same temperature and the same thermal earth resistances are to be presumed.

Normal operation conditions and indications for deviating operation conditions.

INSTALLATION METHODS AND OPERATING CONDITIONS		
LAID IN EARTH	**LAID IN AIR**	**INDICATIONS**
1 Multicore cable 	1 Multicore cable 	Conversion factors see the following tables as of collective laying conditions see the following tables
1 Single core cablein direct current system 	1 Single core cablein direct current system 	
3 Single core cables in 3-phase system, side by side, with a space of 7 cm 	3 Single core cables in 3-phase system, side by side, with a space of a cable ø 	
3 Single core cables in 3-phase system, in bundle form [1] 	3 Single core cables in 3-phase system, in bundle form [1] 	
Bedding in sand orearth shovel and if necessary covering with bricks, cement plates or with flat to light curved thin covering of plastic 	- Laid in open air, i.e. unhindered heat radiation will be ensured at: Distance of cable from wall, floor or ceiling ≥ 2 cm - For cables laying side by side: Space at least two times of the cable ø - For cables laying one above the other: Vertical space of the cable at least two times of the cable ø cable length at least 30 cm - Consideration of thermal loss in cable, the increased air temperature of sufficient big and ventilated rooms - Protection against direct heat radiation of sunlight, etc. - Air temperature 30 °C	Conversion factors for laying in earth: - covering hood with air cavity = 0.9 laid in conduit = 0.85 Conversion factors for laying in air: alternating ambient temperatures - as of collecting laying conditions - for laying in conduits - see tables and indications according to DIN VDE 0298
Ambient Conditions - Ground temperature at installation depth: 20 °C - Soil-thermal resistivity of moist area: 1.0 K.m/W - Soil-thermal resistivity of dry area: 2.5 K.m/W	Adequate big or ventilated rooms, due to that the power loss of the cable not be noticeable increased	
Connecting and earthing of metal sheaths or screens on both ends	Connecting and earthing of metal sheaths or screens on both sides	

CURRENT RATINGS FOR INSTALLATION A1, A2, B1 AND B2 CABLES FOR FIXED INSTALLATION WITHIN BUILDINGS

OPERATING TEMPERATURE AT CONDUCTOR 70 C ; AMBIENT TEMPERATURE 30 °C								
Type designa	H07V-U, -R, -K H07V3-U, -R, -K		NYM, NYBUY H05VV-U, N05VV-R NHXMH NYY NYCY[1]		H07V-U, -R, -K H07V3-U, -R, -K		NYM, NYBUY H05VV-U, N05VV-R NHXMH NYY NYCY[1]	
Installation: * in thermally insulated walls * in insulating tubes	Single core cables in insulating tubes,in thermally insulated walls		Multicore sheathedcables in insulatingtubes, in a thermallyinsulated walls		Multicore sheathedcables in insulatingtubes, in a thermallyinsulated walls		Multicore cables or multicore shaethed cables in insulating tubes on a wall	
								
	Installation in thermally insulated walls				Installation in insulating tubes			
Installation method	A1		A2		B1		B2	
Number of loaded cores Cross-section, mm²	2	3	2	3	2	3	2	3
1.5	15.5[3]	13.5	15.5	13.0	17.5	15.5	16.5	15.0
2.5	19.5	18.0	18.5	17.5	24	21	23	20
4	26	24	25	23	32	28	30	27
6	34	34	32	29	41	36	38	34
10	46	42	43	39	57	50	52	46
10	-	-	-	-	-	-	-	47,17[4]
16	61	56	57	53	76	68	69	62
25	80	73	75	68	101	89	90	80
35	99	89	92	83	125	110	111	99
50	119	108	110	99	151	134	133	118
70	151	136	139	125	192	171	168	149
95	182	164	167	150	232	207	201	179
120	210	188	192	172	269	239	232	206
150	240	216	219	196	-	-	-	-
185	273	245	248	223	-	-	-	-
240	230	286	291	261	-	-	-	-
300	367	328	334	298	-	-	-	-

Conversion factors for deviating ambient temperature. grouping. installation under the ceiling. multicore cables and insulated wires - see DIN VDE0298 part 4.

1) The current ratings are valid for cables with concentric conductor. only for versions.

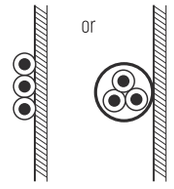
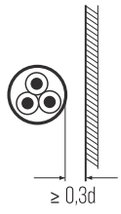
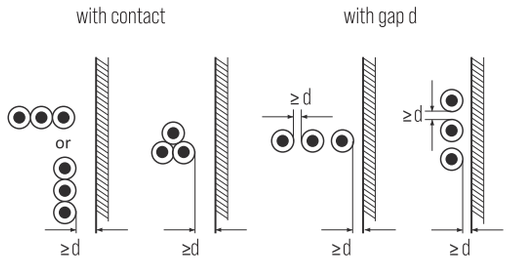
2) For further installation methods - see DIN VDE 0298 part 4.

3) See DIN VDE 0298 part 4.

4) Not permitted for the installation on a wooden wall and not for application of the conversion factors. see DIN VDE 0298 part 4.

CURRENT RATINGS FOR INSTALLATION CONDITIONS C, E, F AND G
CABLES FOR FIXED INSTALLATION WITHIN BUILDINGS

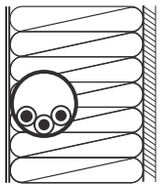
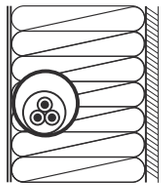
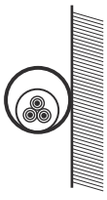
OPERATING TEMPERATURE AT CONDUCTOR 70 C ; AMBIENT TEMPERATURE 30 °C

Type designation	NYM, NYIF, NYIFY, NYBUY, H05W-U, N05W-R, NHXMH, NYY, NYCY		NYY
Installation: * directly *in open air	Singlecore or multicore cables or singleor multicore sheathed cables on a wall	Multicore cables or multicore sheathed cables with a space of minimum 3.0x diameter d to wall	Single core cables or single core sheathed cables with a space of minimum 1x diameter to wall
	 Dircet intallation		 Installation in open air

Installation method[2] Number of loaded cores Cross-section, mm²	C		E		F		G		
	2	3	2	3	2	3			
1.5	19.5	17.5	22	18,5	-	-	-	-	-
2.5	27	24	30	25	-	-	-	-	-
4	36	32	40	34	-	-	-	-	-
4	-	33.02[3]	-	-	-	-	-	-	-
6	46	41	51	43	-	-	-	-	-
10	63	57	70	60	-	-	-	-	-
10	-	59,43[3]	-	-	-	-	-	-	-
16	85	76	94	80	-	-	-	-	-
25	112	96	119	101	131	114	110	146	130
35	138	119	148	126	162	143	137	181	162
50	168	144	180	153	196	174	167	219	197
70	213	184	232	196	251	225	216	281	254
95	258	223	282	238	304	275	264	341	311
120	299	259	328	276	352	321	308	396	362
150	344	299	379	319	406	372	356	456	419
185	392	341	434	364	463	427	409	521	480
240	461	403	514	430	546	507	485	615	569
300	530	464	593	497	629	587	561	709	659
400	-	-	-	-	754	689	656	852	795
500	-	-	-	-	868	789	749	982	920
600	-	-	-	-	1005	905	855	1138	1070

Conversion factors for deviating ambient temperature. grouping. installation under the ceiling. multicore cables and insulated wires - see DIN VDE0298 part 4.
1) The current ratings are valid for cables with concentric conductor. only for versions.
2) For further installation methods - see DIN VDE 0298 part 4.
3) See DIN VDE 0298 part 4.

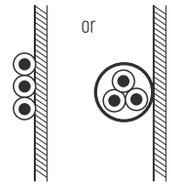
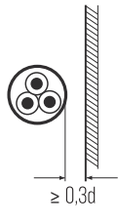
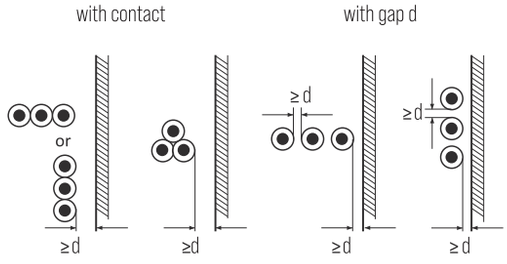
CURRENT RATINGS FOR INSTALLATION CONDITIONSCABLES
CABLES FOR FIXED INSTALLATION WITHIN BUILDINGS A1, A2, B1 AND B2

OPERATING TEMPERATURE AT CONDUCTOR 70 C ; AMBIENT TEMPERATURE 30 °C								
Type designa	H07V2-U, -K H07Z-U, -R, -K		N12XY, N2XY, NHXHX, N2X2Y, N2XH, N2XCH, FE 180 NHXCHX, FE 180 NHXH FE NHXCH FE 180, NHXHX, NHXCHX		H07V2-U, -K H07Z-U, -R, -K		N12XY, N2XY, NHXHX, N2X2Y, N2XH, N2XCH, FE 180 NHXCHX, FE 180 NHXH FE NHXCH FE 180, NHXHX, NHXCHX	
Installation: * in thermally insulated walls * in insulating tubes	Single core cables in insulating tubes,in thermally insulated walls		Multicore sheathedcables in insulatingtubes, in a thermallyinsulated walls		Multicore sheathedcables in insulatingtubes, in a thermallyinsulated walls		Multicore cables or multicore shaethed cables in insulating tubes on a wall	
								
	Installation in thermally insulated walls				Installation in insulating tubes			
Installation method	A1		A2		B1		B2	
Number of loaded cores	2	3	2	3	2	3	2	3
Cross-section, mm²								
1,5	19	17	18,5	16,5	23	20	22	19,5
2,5	26	23	25	22	31	28	30	26
4	35	31	33	30	42	37	40	35
6	45	40	42	38	54	48	51	44
10	61	54	57	51	75	66	69	60
16	81	73	76	68	100	88	91	80
25	106	95	99	89	133	117	119	105
35	131	117	121	109	164	144	146	128
50	158	141	145	130	198	175	175	154
70	200	179	183	164	253	222	221	194
95	241	216	220	197	306	269	265	233
120	278	249	253	227	354	312	305	268
150	318	285	290	259	-	-	-	-
185	362	324	329	295	-	-	-	-
240	424	380	386	346	-	-	-	-
300	486	435	442	396	-	-	-	-

Conversion factors for deviating ambient temperature. grouping. installation under the ceiling. multicore cables and insulated wires - see DIN VDE0298 part 4.
1) For further installation methods - see DIN VDE 0298 part 4

CURRENT RATINGS FOR INSTALLATION CONDITIONS C, E, F AND G
CABLES FOR FIXED INSTALLATION WITHIN BUILDINGS

OPERATING TEMPERATURE AT CONDUCTOR 70 C ; AMBIENT TEMPERATURE 30 °C

Type designation	N12XY, N2XY,N2S2Y, N2XH, N2XCH[1], NHXHX FE 180, NHXH FE180, NHXCH FE180[1], NHXHX FE180, NHXCHX FE 180[1], NHXHX, NHXCHX[1], NHXHX		N12XY, N2XY, N2X2Y N2XH, NHXH FE 180
Installation: * directly *in open air	Singlecore or multicore cables or singleor multicore sheathed cables on a wall	Multicore cables or multicore sheathed cables with a space of minimum 3.0x diameter d to wall	Single core cables or single core sheathed cables with a space of minimum 1x diameter to wall
	 Dircet intallation		 Installation in open air

Installation method[2] Number of loaded cores Cross-section, mm²	C		E		F		G		
	2	3	2	3	2	3			
1,5	24	22	26	23	-	-	-	-	-
2,5	33	30	36	32	-	-	-	-	-
4	45	40	49	42	-	-	-	-	-
6	58	52	63	54	-	-	-	-	-
10	80	71	86	75	-	-	-	-	-
16	107	96	115	110	-	-	-	-	-
25	138	119	149	127	161	141	135	182	161
35	171	147	185	158	200	176	169	226	201
50	209	179	225	192	242	216	207	275	246
70	269	229	289	246	310	279	268	353	318
95	328	278	352	298	377	342	328	430	389
120	382	322	410	346	437	400	383	507	454
150	441	371	473	399	504	464	444	577	527
185	506	424	542	456	575	533	510	661	605
240	599	500	641	539	679	634	607	781	719
300	693	576	741	621	783	736	703	902	833
400	-	-	-	-	940	868	823	1085	1008
500	-	-	-	-	1083	998	946	1253	1169
630	-	-	-	-	1254	1151	1088	1454	1362

Conversion factors for deviating ambient temperature. grouping. installation under the ceiling. multicore cables and insulated wires - see DIN VDE0298 part 4.
1) The current ratings are valid for cables with concentric conductor. only for versions.
2) For further installation methods - see DIN VDE 0298 part 4.

CURRENT RATINGS FOR NYY, NAYY, NYCY, NAYCY 0,6/1 KV

CURRENT CARRYING CAPACITY IN AMPERE (A), LAYING IN GROUND (20 °C)

Nominal cross-section mm²	Copper Conductor					Aliminium Conductor				
	NYY			NYCY		NAYY			NAYCY	
			 [1]					 [1]		
1,5	30	27	41	31	27	-	-	-	-	-
2,5	39	36	55	40	36	-	-	-	-	-
4	50	47	71	51	47	-	-	-	-	-
6	62	59	90	63	59	-	-	-	-	-
10	83	79	124	84	79	-	-	-	-	-
16	107	102	160	108	102	-	-	-	-	-
25	138	133	208	139	133	106	102	160	108	103
35	164	159	250	166	160	127	123	193	129	123
50	195	188	296	196	190	151	144	230	153	145
70	238	232	365	238	234	185	179	283	187	180
95	286	280	438	281	280	222	215	340	223	216
120	325	318	501	315	319	253	245	389	252	246
150	365	359	563	347	357	284	275	436	280	276
185	413	406	639	385	402	322	313	496	314	313
240	479	473	746	432	463	375	364	578	358	362
300	541	535	848	473	518	425	419	656	397	415
400	614	613	975	521	579	487	484	756	441	474
500	693	687	1125	574	624	558	553	873	489	528

[1]Rated current for direct current systems with a far-distanced return conductor

CURRENT CARRYING CAPACITY IN AMPERE (A), LAYING IN AIR (30 °C)

Nominal cross-section mm²	Copper Conductor					Aliminium Conductor				
	NYY			NYCY		NAYY			NAYCY	
			 [1]					 [1]		
1,5	21	19,5	27	22	19,5	-	-	-	-	-
2,5	28	25	35	29	26	-	-	-	-	-
4	37	34	47	39	34	-	-	-	-	-
6	47	43	59	49	44	-	-	-	-	-
10	64	59	81	67	60	-	-	-	-	-
16	84	79	107	89	80	-	-	-	-	-
25	114	106	144	119	108	87	82	110	91	83
35	139	129	176	146	132	107	100	135	112	101
50	169	157	214	177	160	131	119	166	137	121
70	213	199	270	221	202	166	152	210	173	155
95	264	246	334	270	249	205	186	259	212	189
120	307	285	389	310	289	239	216	302	247	220
150	352	326	446	350	329	273	246	345	280	249
185	406	374	516	399	377	317	285	401	321	287
240	483	445	618	462	443	378	338	479	374	339
300	557	511	717	519	504	437	400	555	426	401
400	646	597	843	583	577	513	472	653	488	468
500	747	669	994	657	626	600	539	772	556	524

[1]Rated current for direct current systems with a far-distanced return conductor

CONDUCTOR CONVERSION FACTORS FOR MULTICORE CABLE (≥ 5CORES)

The conversion factors are to be used for laying the cables in ground or in air, to the values given in above tables.

Numer Of Loaded Cores N	Laying in Ground F	Laying in Air F
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
41	0,3	0,35
61	0,25	0,3

Note: Valid for cross-section 1,5 to 10 mm2,1)

CURRENT RATINGS FOR N2XY, NA2XY; N2XCY; NA2XCY; N2X2Y; NA2X2Y; N2XC2Y, NA2XC2Y; N2XH, NA2XH; N2XCH; NA2XCH

CURRENT CARRYING CAPACITY IN AMPERE (A), LAYING IN GROUND (20 °C)										
Nominal cross-section mm²	Copper Conductor					Aliminium Conductor				
	N2XY;N2X2Y			N2XCY; N2XC2Y		NA2XY; NA2X2Y			NA2XCY; NA2XC2Y	
			 [1]					 [1]		
1,5	48	31	33	31	33	-	-	-	-	-
2,5	63	40	42	40	43	-	-	-	-	-
4	82	52	54	52	55	-	-	-	-	-
6	102	64	67	65	68	-	-	-	-	-
10	136	86	89	87	91	-	-	-	-	-
16	176	112	115	113	117	-	-	-	-	-
25	229	145	148	146	150	177	112	114	113	116
35	275	174	177	176	179	212	135	136	136	138
50	326	206	209	208	211	252	158	162	159	164
70	400	254	256	256	257	310	196	199	197	201
95	480	305	307	307	304	372	234	238	236	240
120	548	348	349	349	341	425	268	272	269	272
150	616	392	393	391	377	476	300	305	302	303
185	698	444	445	442	418	541	342	347	342	340
240	815	517	517	509	469	631	398	404	397	387
300	927	585	583	569	514	716	457	457	454	430
400	1064	671	663	637	565	825	529	525	520	479
500	1227	758	749	691	623	952	609	601	584	531

[1] Rated current for direct current systems with a far-distanced return conductor

CONVERSION FACTORS FOR DEVIATING AMBIENT TEMPERATURE T (°C)						
Permissible operating temperature	40°C	60°C	70°C	80°C	85°C	90°C
Ambient temperature °C	Conversion factors used for the corresponding prescribed current ratings in the table					
10	1,73	1,29	1,22	1,18	1,17	1,15
15	1,58	1,22	1,17	1,14	1,13	1,12
20	1,41	1,15	1,12	1,1	1,09	1,08
25	1,22	1,08	1,06	1,05	1,04	1,04
30	1	1	1	1	1	1
35	0,71	0,91	0,94	0,95	0,95	0,96
40	-	0,82	0,87	0,89	0,9	0,91
45	-	0,71	0,79	0,84	0,85	0,87
50	-	0,58	0,71	0,77	-	0,82
55	-	0,41	0,61	0,71	-	0,76
60	-	-	0,5	0,63	-	0,71
65	-	-	0,35	0,55	-	0,65
70	-	-	-	0,45	-	0,58
75	-	-	-	0,32	-	0,5
80	-	-	-	-	-	0,41
85	-	-	-	-	-	0,29

NOTES


iNKACABLE

INKA CABLE

TÜV NORD

ISO 45001:2018

ISO 14001:2015

ISO 9001:2015

TSE

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