# MEGACAB

# PRODUCT CATALOG

# MEGACAB

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MEGACAB

# ABOUT US

Founded in 2025 with German and Turkish engineers with more than 40 years of experience in the cable and machinery sector and young Turkish entrepreneurs, MEGACAB. is the only company in Turkey that produces armored cables and provides consultancy services to manufacturing companies.

MEGACAB has gained an important place in the sector by producing installation cables, flexible multi-core cables, antigron cables, flat-twin flat cables and 0.6/1 kV low voltage armored-unarmored power cables in Türkiye. It fulfills the requirements of ISO 9001:2015 Quality Management System standards with its organizational STRUCTURE that keeps up with developing technology.

Continuing its production in Turkey, MEGACAB continues its production with its modern machinery equipment and its own expert staff and provides consultancy services to various companies.

MEGACAB, which continues its production in
Turkey, continues its production with its modern machinery equipment and its own expert staff and provides consultancy services to various companies. Thanks to the consultancy services we provide to various manufacturing companies in Russia, Uzbekistan and Türkiye, we increase the production performance and product diversity of our partners.

# OUR QUALITY POLICY

MEGACAB is aware of qulality , customer satisfaction and energy management are a teamwork. In this manner , its employees from top to bottom units and its suppliers/subcontractors adopt this mentality. According to thsi system , it provides services by committing to the fullfillment of the requirements of ISO 9001 Management System that we are
implementing and to the continuous betterment of the effectiveness of its aims. Within this principle , our quality policies are as follows :

To fulfill all legal requirements and legislation ,
To ensure the continutiy of the training of its employees and to establish the awareness of quality responsibility ,
To evaluate its external suppliers and subcontractors as part of the quality it creates and to ensure that the requirements of this standardare complied with ,
To ensure that production is carried out in accordance with the national and international standards in force in matters regarding production activities ,
To meet customer requests and need above expectations within the framework of customer satisfaction principle ,
To set an example for all companies within the sector ,
To carry out energy management in accordance with the standards ,
To be a leading company in the sector that has a highly competitive power and makes maximum contribution to technological conditions.
MEGACAB realizes all its production according to the ISO 9001 Management System standards.



# OUR MISSION

In the cable sector,

- To ensure continuity in brand awareness, to protect reputation, to be a visionary company that follows sectoral developments,
- To provide reliable service and quality products, To
- provide safe and efficient working environment for its employees,
- To be involved in activities that are sensitive to the environment and that will contribute to the environmental developments, to produce social benefits and to provide benefits

# OUR VISION

To create differences in the circle of product, service, trust and quality, to provide permanent superiority in honest and principled competition conditions, to be an indispensable commercial stakeholder in the power cable market.

# OUR VALUES

- ✓ Customer satisfaction
- ✓ Sustainable quality and trust
- ✓ Ethical behavior, honesty and transparency
- ✓ Respect for people, nature and environment
- ✓ Happiness of employees and teamwork
- ✓ Continuous improvement

# CONSTRUCTION

## PVC Insulated Single Core Cables

**UK CODE**
**2491 X / 6491 X**


① PVC INSULATION
Polyvinyl Chloride

② CONDUCTOR
Solid Copper

| CODE | H05V-U / 60227 IEC 05 | | H07V-U / 60227 IEC 01 |
|---|---|---|---|
| STANDARDS | TS EN 50525-2-31 | BS EN 50525-2-31 | IEC 60227-3 |

### TECHNICAL SPECIFICATIONS

- 160 °C — Max. Short Circuit Temperature
- 70 °C — Max. Operating Temperature
- Test Voltage (AC 2 Kv / 2.5 kV)
- Pb — Lead Free
- Min. Bending Radius

| | |
|---|---|
| D<8 | 4xD |
| 8<D<12 | 5xD |
| D>12 | 6xD |

- 300/500V 450/750V — Rated Voltage Uo/U
- Flame Propagation Test on Single Cable
  EN / IEC 60332-1-2

**APPLICATION AREAS**

It's used in fixed facilities , dry places , distribution boards and closed areas , factories , workshops and workplaces flush mounted or surface-mounted

## TECHNICAL DATA Cu/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| H05V-U / 60227 IEC 05 | | | | | |
| 0,5 | 2 | 9 | 36 | - | - |
| 0,75 | 2,2 | 12 | 24,5 | - | 16 |
| 1 | 2,4 | 13 | 18,1 | 11 | 19 |
| H07V-U / 60227 IEC 01 | | | | | |
| 1,5 | 2,7 | 21 | 12,1 | 14,5 | 24 |
| 2,5 | 3,2 | 34 | 7,41 | 19,5 | 32 |
| 4 | 3,7 | 50 | 4,61 | 26 | 42 |
| 6 | 4,2 | 71 | 3,08 | 34 | 54 |
| 10 | 5,4 | 116 | 1,83 | 46 | 73 |

# CONSTRUCTION

## PVC Insulated Single Core Cables

UK CODE
2491 X / 6491 X


1 PVC INSULATION
Polyvinyl Chloride

2 CONDUCTOR
Stranded Copper

| CODE | H07V-R / 60227 IEC 01 | | |
|---|---|---|---|
| STANDARDS | TS EN 50525-2-31 | BS EN 50525-2-31 | IEC 60227-3 |

## TECHNICAL SPECIFICATIONS

160 °C Max. Short Circuit Temperature

70 °C Max. Operating Temperature

Test Voltage (AC 2 Kv / 2.5 kV)

Pb Lead Free

Min. Bending Radius

| | |
|---|---|
| D<8 | 4xD |
| 8<D<12 | 5xD |
| D>12 | 6xD |

450/750V Rated Voltage Uo/U

Flame Propagation Test on Single Cable

EN / IEC 60332-1-2

### APPLICATION AREAS

It's used in fixed facilities , dry places , distribution boards and closed areas , factories , workshops and workplaces flush mounted or surface-mounted

## TECHNICAL DATA Cu/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| H07V-R / 60227 IEC 01 | | | | | |
| 1,5 | 3 | 21 | 12,1 | 14,5 | 24 |
| 2,5 | 3,6 | 32 | 7,41 | 19,5 | 32 |
| 4 | 4,2 | 48 | 4,61 | 26 | 42 |
| 6 | 4,8 | 67 | 3,08 | 34 | 54 |
| 10 | 5,9 | 110 | 1,83 | 46 | 73 |
| 16 | 6,9 | 181 | 1,15 | 61 | 98 |
| 25 | 8,2 | 280 | 0,727 | 80 | 129 |
| 35 | 9,3 | 382 | 0,524 | 99 | 158 |
| 50 | 10,8 | 542 | 0,387 | 119 | 198 |
| 71 | 12,4 | 745 | 0,268 | 151 | 245 |
| 95 | 14,5 | 1010 | 0,193 | 182 | 292 |
| 120 | 15,9 | 1260 | 0,153 | 210 | 344 |
| 150 | 17,7 | 1575 | 0,124 | 240 | 391 |
| 185 | 19,8 | 1945 | 0,0991 | 273 | 448 |
| 240 | 22,8 | 2520 | 0,0754 | 320 | 528 |
| 300 | 25,2 | 2950 | 0,0601 | - | - |
| 400 | 31,2 | 3740 | 0,0470 | - | - |
| 500 | 35,6 | 4820 | 0,0366 | - | - |
| 630 | 37,6 | 6145 | 0,0283 | - | - |

# CONSTRUCTION

UK CODE
2491 X / 6491 X

## PVC Insulated Flexible Single Core Cables


① PVC INSULATION
Polyvinyl Chloride

② CONDUCTOR
Thin Multi-Wire Copper

| CODE | H05V-K / 60227 IEC 06 | | H07V-K / 60227 IEC 02 |
|---|---|---|---|
| STANDARDS | TS EN 50525-2-31 | BS EN 50525-2-31 | IEC 60227-3 |

## TECHNICAL SPECIFICATIONS

160 °C Max. Short Circuit Temperature

70 °C Max. Operating Temperature

Test Voltage (AC 2 Kv / 2.5 kV)

Pb Lead Free

Min. Bending Radius

| | |
|---|---|
| D<8 | 4xD |
| 8<D<12 | 5xD |
| D>12 | 6xD |

300/500V 450/750V Rated Voltage Uo/U

Flame Propagation Test on Single Cable
EN / IEC 60332-1-2

### APPLICATION AREAS

It's used in fixed facilities , dry places , distribution boards and closed areas , factories , workshops and workplaces flush mounted or surface-mounted

## TECHNICAL DATA Cu/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| **H05V-K / 60227 IEC 06** | | | | | |
| 0,5 | 2 | 9 | 39 | - | - |
| 0,75 | 2,2 | 12 | 26 | - | 16 |
| 1 | 2,4 | 13 | 19,5 | 11 | 20 |
| **H07V-K / 60227 IEC 02** | | | | | |
| 1,5 | 2,8 | 19 | 13,3 | 14,5 | 24 |
| 2,5 | 3,4 | 30 | 7,98 | 19,5 | 32 |
| 4 | 3,9 | 44 | 4,95 | 26 | 42 |
| 6 | 4,4 | 63 | 3,30 | 34 | 54 |
| 10 | 6,1 | 112 | 1,91 | 46 | 73 |
| 16 | 7,4 | 169 | 1,21 | 61 | 98 |
| 25 | 9 | 251 | 0,780 | 80 | 129 |
| 35 | 10,9 | 369 | 0,554 | 99 | 158 |
| 50 | 12,7 | 528 | 0,386 | 119 | 198 |
| 70 | 14,7 | 730 | 0,272 | 151 | 245 |
| 95 | 16,9 | 969 | 0,206 | 182 | 292 |
| 120 | 18,8 | 1212 | 0,161 | 210 | 344 |
| 150 | 21 | 1521 | 0,129 | 240 | 391 |
| 185 | 23,3 | 1857 | 0,106 | 273 | 448 |
| 240 | 26,6 | 2443 | 0,0801 | 320 | 528 |

# CONSTRUCTION

**UK CODE**
**2491 XHR / 6491 XHR**

## PVC Insulated Heat Resistant Single Core Cables


1 HR-PVC INSULATION
Heat ResistantPolyvinly Chloride

2 CONDUCTOR
Solid or Stranded Copper

| CODE | H05V2-U 60227 IEC 07 | H07V2-U | H07V2-R |
|---|---|---|---|
| STANDARDS | TS EN 50525-2-31 | BS EN 50525-2-31 | IEC 60227-3 |

## TECHNICAL SPECIFICATIONS

160 °C Max. Short Circuit Temperature

90 °C Max. Operating Temperature

Test Voltage (AC 2 Kv / 2.5 kV)

Pb Lead Free

Min. Bending Radius

D<8 4xD
8<D<12 5xD
D>12 6xD

300/500V 450/750V Rated Voltage Uo/U

Flame Propagation Test on Single Cable
EN / IEC 60332-1-2

**APPLICATION AREAS**

It's used order conditions where the working temperature must be high(90°C), in household appliances, fixed facilities, dry places, distribution boards and closed areas, in factories, workshops and
All kinds of workplaces flush mounted or surface-mounted.

## TECHNICAL DATA Cu/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| **H05V-K / 60227 IEC 06** | | | | | |
| 0,5 | 2 | 9 | 36 | - | 12 |
| 0,75 | 2,2 | 12 | 24,5 | - | 15 |
| 1 | 2,4 | 13 | 18,1 | - | 19 |
| **H07V-K / 60227 IEC 02** | | | | | |
| 1,5 | 2,7 | 21 | 12,1 | 14,5 | 24 |
| 2,5 | 3,2 | 34 | 7,41 | 19,5 | 32 |
| 4 | 3,7 | 50 | 4,61 | 26 | 42 |
| 6 | 4,2 | 71 | 3,08 | 34 | 54 |
| 10 | 5,4 | 116 | 1,83 | 46 | 73 |
| 16 | 6,9 | 181 | 1,15 | 61 | 98 |
| 25 | 8,2 | 280 | 0,727 | 80 | 129 |
| 35 | 9,3 | 382 | 0,524 | 99 | 158 |
| 50 | 10,8 | 542 | 0,387 | 119 | 198 |
| 70 | 12,4 | 745 | 0,,268 | 151 | 245 |
| 95 | 14,5 | 1010 | 0,193 | 182 | 292 |
| 120 | 15,9 | 1260 | 0,153 | 210 | 344 |
| 150 | 17,7 | 1575 | 0,124 | 240 | 391 |
| 185 | 19,8 | 1945 | 0,0991 | 273 | 448 |
| 240 | 22,8 | 2520 | 0,0754 | 320 | 528 |
| 300 | 25,2 | 2950 | 0,0601 | - | - |
| 400 | 31,2 | 3740 | 0,0470 | - | - |
| 500 | 35,6 | 4818 | 0,0366 | - | - |
| 630 | 37,6 | 6143 | 0,0283 | - | - |

# CONSTRUCTION

**UK CODE**
**2491 XHR / 6491 XHR**

## PVC Insulated Heat Resistant Flexible Single Core Cables


① HR-PVC INSULATION
Heat Resistant Polyvinly Chloride

② CONDUCTOR
Thin Multi-Wire Copper

| CODE | H05V2-U 60227 IEC 08 | | H07V2-K |
|---|---|---|---|
| STANDARDS | TS EN 50525-2-31 | BS EN 50525-2-31 | IEC 60227-3 |

## TECHNICAL SPECIFICATIONS

160 °C Max. Short Circuit Temperature

90 °C Max. Operating Temperature

Test Voltage (AC 2 Kv / 2.5 kV)

Min. Bending Radius

D<8 4xD
8<D<12 5xD
D>12 6xD

300/500V 450/750V Rated Voltage Uo/U

Flame Propagation Test on Single Cable
EN / IEC 60332-1-2

### APPLICATION AREAS

It's used under conditions where the working temperature must be high(90°C), in household appliances, fixed facilities, dry places, distribution boards and closed areas, in factories, workshops and
All kinds of workplaces flush mounted or surface-mounted.

## TECHNICAL DATA Cu/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| **H05V-K / 60227 IEC 06** | | | | | |
| 0,5 | 2 | 9 | 36 | - | 12 |
| 0,75 | 2,2 | 12 | 26 | - | 15 |
| 1 | 2,4 | 13 | 19,5 | - | 19 |
| **H07V-K / 60227 IEC 02** | | | | | |
| 1,5 | 2,8 | 19 | 13,3 | 14,5 | 24 |
| 2,5 | 3,4 | 30 | 7,98 | 19,5 | 32 |
| 4 | 3,9 | 44 | 4,95 | 26 | 42 |
| 6 | 4,4 | 63 | 3,30 | 34 | 54 |
| 10 | 6,1 | 112 | 1,91 | 46 | 73 |
| 16 | 7,4 | 169 | 1,21 | 61 | 98 |
| 25 | 9 | 251 | 0,780 | 80 | 129 |
| 35 | 10,9 | 369 | 0,554 | 99 | 158 |
| 50 | 12,7 | 528 | 0,386 | 119 | 198 |
| 70 | 14,7 | 730 | 0,272 | 151 | 245 |
| 95 | 16,9 | 969 | 0,206 | 182 | 292 |
| 120 | 18,8 | 1212 | 0,161 | 210 | 344 |
| 150 | 21 | 1521 | 0,129 | 240 | 391 |
| 185 | 23,3 | 1857 | 0,106 | 273 | 448 |
| 240 | 26,6 | 2443 | 0,0801 | 320 | 528 |

# CONSTRUCTION

## PVC Insulated Cold Resistant Single Core Cables


1 CR-PVC INSULATION
Cold Resistant Polyvinly Chloride

2 CONDUCTOR
Solid or Stranded Copper

| CODE | H05V3-U | H07V3-U | H07V3-R |
|---|---|---|---|
| STANDARDS | DIN VDE 0281-9 | | TS HD 21.9 S2 |

## TECHNICAL SPECIFICATIONS

160 °C Max. Short Circuit Temperature

70 °C Max. Operating Temperature

Test Voltage (AC 2 Kv / 2.5 kV)

Min. Bending Radius

D<8 4xD
8<D<12 5xD
D>12 6xD

300/500V 450/750V Rated Voltage Uo/U

Flame Propagation Test on Single Cable
EN / IEC 60332-1-2

### APPLICATION AREAS

It's used under low temperature in dry places, distribution boards and closed areas, in factories, workshops and all kinds of workplaces flush mounted or surface-mounted.

## TECHNICAL DATA Cu/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| H05V-K / 60227 IEC 06 | | | | | |
| 0,5 | 2 | 9 | 36 | - | - |
| 0,75 | 2,2 | 12 | 24,5 | - | 15 |
| 1 | 2,3 | 15 | 18,1 | 11 | 19 |
| H07V-K / 60227 IEC 02 | | | | | |
| 1,5 | 2,8 | 20 | 12,1 | 16 | 25 |
| 2,5 | 3,3 | 30 | 7,41 | 21 | 34 |
| 4 | 3,8 | 45 | 4,61 | 27 | 45 |
| 6 | 4,3 | 65 | 3,08 | 35 | 57 |
| 10 | 6 | 115 | 1,83 | 48 | 78 |
| 16 | 7 | 170 | 1,15 | 65 | 104 |
| 25 | 8,5 | 260 | 0,727 | 88 | 137 |
| 35 | 9,5 | 360 | 0,524 | 110 | 168 |
| 50 | 11 | 480 | 0,387 | 140 | 210 |
| 70 | 13 | 670 | 0,268 | 175 | 260 |
| 95 | 15 | 930 | 0,193 | 210 | 310 |
| 120 | 16,5 | 1160 | 0,153 | 250 | 365 |
| 150 | 18 | 1420 | 0,124 | - | 415 |
| 185 | 20 | 1780 | 0,0991 | - | 475 |
| 240 | 23 | 2330 | 0,0754 | - | 560 |
| 300 | 26 | 2930 | 0,0601 | - | 645 |
| 400 | 29 | 3750 | 0,0470 | - | 770 |

# CONSTRUCTION

## PVC Insulated Cold Resistant Flexible Single Core Cables


① CR-PVC INSULATION
Cold Resistant Polyvinly Chloride

② CONDUCTOR
Thin Multi-Wire Copper

| CODE | H05V3-K | H07V3-K |
|---|---|---|
| STANDARDS | DIN VDE 0281-9 | TS HD 21.9 S2 |

### TECHNICAL SPECIFICATIONS

160 °C Max. Short Circuit Temperature

70 °C Max. Operating Temperature

Test Voltage (AC 2 Kv / 2.5 kV)

Min. Bending Radius

D<8 4xD
8<D<12 5xD
D>12 6xD

300/500V 450/750V Rated Voltage Uo/U

Flame Propagation Test on Single Cable
EN / IEC 60332-1-2

### APPLICATION AREAS

It's used in fixed facilities , dry places , distribution boards and closed areas , factories , workshops and workplaces flush mounted or surface-mounted

## TECHNICAL DATA Cu/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| H05V3-K | | | | | |
| 0,5 | 2 | 9 | 39 | - | - |
| 0,75 | 2,3 | 12 | 26 | - | 16 |
| 1 | 2,5 | 14 | 19,5 | 12 | 20 |
| H07V-K | | | | | |
| 1,5 | 3 | 20 | 13,3 | 15 | 24 |
| 2,5 | 3,7 | 33 | 7,98 | 20 | 32 |
| 4 | 4,5 | 50 | 4,95 | 25 | 42 |
| 6 | 5,5 | 70 | 3,30 | 33 | 54 |
| 10 | 6,5 | 120 | 1,91 | 45 | 73 |
| 16 | 7,5 | 180 | 1,21 | 61 | 98 |
| 25 | 10 | 270 | 0,780 | 83 | 129 |
| 35 | 11 | 360 | 0,554 | 103 | 158 |
| 50 | 13 | 510 | 0,386 | 132 | 198 |
| 70 | 15 | 700 | 0,272 | 165 | 245 |
| 95 | 17 | 950 | 0,206 | 197 | 292 |
| 120 | 19 | 1150 | 0,161 | 235 | 344 |
| 150 | 21 | 1450 | 0,129 | - | 391 |
| 185 | 23 | 1750 | 0,106 | - | 448 |
| 240 | 27 | 2300 | 0,0801 | - | 528 |

# CONSTRUCTION

## Halogen Free Flame Retardant Single Core Cables


1 LSZH INSULATION
Low Smoke Zero Halogen

2 CONDUCTOR
Solid or Stranded Copper

| CODE | H05Z1-U | H07Z1-U | H07Z1-R |
|---|---|---|---|
| STANDARDS | TS EN 50525-3-31 | | BS EN 50525-3-31 |

## TECHNICAL SPECIFICATIONS

- 160 °C Max. Short Circuit Temperature
- 70 °C Max. Operating Temperature
- Test Voltage (AC 2 Kv / 2.5 kV)
- Low Smoke Density (EN 61034-2)
- Min. Bending Radius

| | |
|---|---|
| D<8 | 4xD |
| 8<D<12 | 5xD |
| D>12 | 6xD |

- 300/500V 450/750V Rated Voltage Uo/U
- Flame Propagation Test on Single Cable
  EN / IEC 60332-1-2
- Halogen Free (EN 60754-1 / EN 60754-2)

### APPLICATION AREAS

It's used in refineries , hotels , schools i tunnels , high buildings , Hospitals data processing centers and business centers where people are Concentrated as well as in fire-sensitive areas.

## TECHNICAL DATA Cu/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| **H05Z1-U** | | | | | |
| 0,5 | 2 | 9 | 36 | 3 | 12 |
| 0,75 | 2,2 | 13 | 24,5 | 6 | 15 |
| 1 | 2,4 | 16 | 18,1 | 11 | 19 |
| **H07Z1-U / H07Z1-R** | | | | | |
| 1,5 | 2,7 | 21 | 12,1 | 14,5 | 24 |
| 2,5 | 3,3 | 34 | 7,41 | 19,5 | 32 |
| 4 | 3,7 | 50 | 4,61 | 26 | 42 |
| 6 | 4,2 | 71 | 3,08 | 34 | 54 |
| 10-U | 5,4 | 116 | 1,83 | 46 | 73 |
| 10-R | 6 | 116 | 1,83 | 46 | 73 |
| 16 | 7 | 168 | 1,15 | 61 | 98 |
| 25 | 8,8 | 258 | 0,727 | 80 | 129 |
| 35 | 9,5 | 346 | 0,524 | 99 | 158 |
| 50 | 11 | 468 | 0,387 | 119 | 198 |
| 70 | 12,5 | 660 | 0,268 | 151 | 245 |
| 95 | 15 | 910 | 0,193 | 172 | 292 |
| 120 | 16,5 | 1140 | 0,153 | 210 | 344 |
| 150 | 18 | 1405 | 0,124 | 240 | 391 |
| 185 | 20 | 1745 | 0,0991 | 273 | 448 |
| 240 | 23 | 2205 | 0,0754 | 320 | 528 |
| 300 | 27,6 | 2995 | 0,0601 | - | 645 |
| 400 | 31,3 | 3000 | 0,0470 | - | 770 |

# CONSTRUCTION

## Halogen Free Flame Retardant Flexible Single Core Cables


① LSZH INSULATION
Low Smoke Zero Halogen

② CONDUCTOR
Thin Multi-Wire Copper

| CODE | H05Z1-K | H07Z1-K |
|---|---|---|
| STANDARDS | TS EN 50525-3-31 | BS EN 50525-3-31 |

### TECHNICAL SPECIFICATIONS

- 160 °C — Max. Short Circuit Temperature
- 70 °C — Max. Operating Temperature
- Test Voltage (AC 2 Kv / 2.5 kV)
- Low Smoke Density (EN 61034-2)
- Min. Bending Radius

| | |
|---|---|
| D<8 | 4xD |
| 8<D<12 | 5xD |
| D>12 | 6xD |

- 300/500V 450/750V — Rated Voltage Uo/U
- Flame Propagation Test on Single Cable
  EN / IEC 60332-1-2
- Halogen Free (EN 60754-1 / EN 60754-2)

### APPLICATION AREAS

It's used in refineries , hotels , schools , tunnels , high buildings , Hospitals data processing centers and business centers where people are Concentrated as well as in fire-sensitive areas.

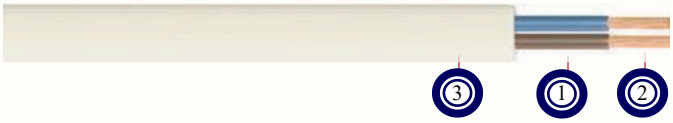
## TECHNICAL DATA Cu/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| **H05Z1-K** | | | | | |
| 0,5 | 2 | 9 | 36 | 3 | 12 |
| 0,75 | 2,2 | 13 | 24,5 | 6 | 15 |
| 1 | 2,4 | 16 | 18,1 | 11 | 19 |
| **H07Z1-K** | | | | | |
| 1,5 | 3 | 19 | 13,3 | 14,5 | 24 |
| 2,5 | 3,5 | 30 | 7,98 | 19,5 | 32 |
| 4 | 4 | 44 | 4,95 | 26 | 42 |
| 6 | 4,5 | 61 | 3,30 | 34 | 54 |
| 10 | 6 | 105 | 1,91 | 46 | 73 |
| 16 | 7 | 158 | 1,21 | 61 | 98 |
| 25 | 9 | 253 | 0,780 | 80 | 129 |
| 35 | 10,5 | 345 | 0,554 | 99 | 158 |
| 50 | 12,5 | 495 | 0,386 | 119 | 198 |
| 70 | 14 | 670 | 0,272 | 151 | 245 |
| 95 | 16 | 905 | 0,206 | 182 | 292 |
| 120 | 17,5 | 1132 | 0,161 | 210 | 344 |
| 150 | 20 | 1415 | 0,129 | 240 | 391 |
| 185 | 21,5 | 1720 | 0,106 | 273 | 448 |
| 240 | 24 | 2255 | 0,0801 | 320 | 528 |

# CONSTRUCTION

## PVC Insulated Multi-Core Flexible Cables

UK KODU
2182Y / 2183Y / 2184Y




① PVC INSULATION
Polyvinyl Chloride

② CONDUCTOR
Thin Multi-Wire Copper

③ PVC INSULATION
Polyvinyl Chloride

| CODE | H03VV-F | | |
|---|---|---|---|
| STANDARDS | TS EN 50525-2-11 | BS EN 50525-2-11 | IEC 60227-5 |

### TECHNICAL SPECIFICATIONS

- 150 °C Max. Short Circuit Temperature
- 60 °C Max. Operating Temperature
- Test Voltage (AC 2 Kv)
- Pb Lead Free
- 300/300V Rated Voltage Uo/U
- Flame Propagation Test on Single Cable
  EN / IEC 60332-1-2
- Min. Bending Radius
  D≤ 12 5xD
  D>12 6xD

### APPLICATION AREAS

It's used as a connecting cable in damp places with little mechanical force and generally in household appiances.

## TECHNICAL DATA Cu/PVC/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| H03VV-F / 60227 IEC 52 | | | | |
| 2x0,50 | 5 | 36 | 39 | 3 |
| 2x0,75 | 5,5 | 46 | 26 | 6 |
| 3x0,50 | 5,3 | 43 | 39 | 3 |
| 3x0,75 | 5,8 | 54 | 26 | 6 |
| 4x0,50 | 5,8 | 53 | 39 | 3 |
| 4x0,75 | 6,4 | 68 | 26 | 6 |

# CONSTRUCTION

**UK CODE**
3182Y / 3183Y
3184Y / 3185Y

## PVC Insulated Multi-Core Flexible Cables


① PVC INSULATION
Polyvinyl Chloride

② CONDUCTOR
Thin Multi-Wire Copper

③ PVC OUTER SHEATH
Polyvinyl Chloride

| CODE | H05VV-F / 60227 IEC 53 | | |
|---|---|---|---|
| STANDARDS | TS EN 50525-2-11 | BS EN 50525-2-11 | IEC 60227-5 |

### TECHNICAL SPECIFICATIONS

- 150 °C Max. Short Circuit Temperature
- 60 °C Max. Operating Temperature
- Test Voltage (AC 2 Kv)
- Pb Lead Free
- 300/300V Rated Voltage Uo/U
- Flame Propagation Test on Single Cable
  EN / IEC 60332-1-2
- Min. Bending Radius
  D≤ 12 5xD
  D>12 6xD

### APPLICATION AREAS

It's used as a connection cable in damp places with little mechanical force and generally in household appliances.

## TECHNICAL DATA Cu/PVC/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| H05VV-F / 60227 IEC 53 | | | | |
| 2x0,75 | 5,9 | 55 | 26 | 6 |
| 2x1 | 6,3 | 64 | 19,5 | 10 |
| 2x1,5 | 7,2 | 87 | 13,3 | 16 |
| 2x2,5 | 8,9 | 133 | 7,98 | 25 |
| 2x4 | 10,9 | 184 | 4,95 | 32 |
| 3x0,75 | 6,3 | 65 | 26 | 6 |
| 3x1 | 6,7 | 75 | 19,5 | 10 |
| 3x1,5 | 7,8 | 106 | 13,3 | 16 |
| 3x2,5 | 9,6 | 163 | 7,98 | 25 |
| 3x4 | 11 | 226 | 4,95 | 32 |
| 4x0,75 | 6,8 | 77 | 26 | 6 |
| 4x1 | 7,4 | 93 | 19,5 | 10 |
| 4x1,5 | 8,7 | 131 | 13,3 | 16 |
| 4x2,5 | 10,5 | 197 | 7,98 | 25 |
| 4x4 | 12 | 275 | 4,95 | 32 |
| 5x0,75 | 7,8 | 97 | 26 | 6 |
| 5x1 | 8,3 | 113 | 19,5 | 10 |
| 5x1,5 | 9,9 | 164 | 13,3 | 16 |
| 5x2,5 | 12,8 | 248 | 7,98 | 25 |
| 5x4 | 13,6 | 347 | 4,95 | 32 |

# CONSTRUCTION

**UK KODU**
**2192Y / 3192Y**

## PVC Insulated Flexible Flat Cables


① PVC **INSULATION**
Polyvinyl Chloride

② **CONDUCTOR**
Thin Multi-Wire Copper

③ PVC **OUTER SHEATH**
Polyvinyl Chloride

| CODE | H03VVH2-F / 60227 IEC 52 | | H05VVH2-F / 60227 IEC 53 |
|---|---|---|---|
| STANDARDS | TS EN 50525-2-11 | BS EN 50525-2-11 | IEC 60227-5 |

### TECHNICAL SPECIFICATIONS

- 150 °C — Max. Short Circuit Temperature
- 60 °C — Max. Operating Temperature
- Test Voltage (AC 2 Kv)
- Pb — Lead Free
- 300/300V — Rated Voltage Uo/U
- Flame Propagation Test on Single Cable
  EN / IEC 60332-1-2
- Min. Bending Radius
  D≤ 12 — 5xD
  D>12 — 6xD

### APPLICATION AREAS

It's used as a connection cable in damp places with little mechanical force and generally in household appliances.

## TECHNICAL DATA Cu/PVC/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| **H03VVH2-F / 60227 IEC 52** | | | | |
| 2x0,50 | 3,1x0,50 | 30 | 39 | 3 |
| 2x0,75 | 3,4x5,5 | 37 | 26 | 6 |
| **H05VVH2-F / 60227 IEC 53** | | | | |
| 2x0,75 | 4x6,3 | 47 | 26 | 6 |
| 2x1 | 4,1x6,6 | 54 | 19,5 | 10 |
| 2x1,5 | 4,7x7,6 | 73 | 13,3 | 16 |
| 2x2,5 | 5,6x9,1 | 108 | 7,98 | 25 |
| 2x4 | 6,3x10,4 | 150 | 4,95 | 32 |
| 3x0,75 | 4x8,7 | 66 | 26 | 6 |
| 3x1 | 4,1x9,1 | 76 | 19,5 | 10 |
| 3x1,5 | 4,7x10,5 | 103 | 13,3 | 16 |
| 3x2,5 | 5,8x12,9 | 158 | 7,98 | 25 |
| 3x4 | 6,5x14,7 | 220 | 4,95 | 32 |

# CONSTRUCTION

## PVC Flexible Unsheathed Cord


① PVC INSULATION
Polyvinyl Chloride

② CONDUCTOR
Thin Multi-Wire Copper

| CODE | A03VH-H | A05VH-H |
|---|---|---|

### TECHNICAL SPECIFICATIONS

160 °C Max. Short Circuit Temperature

70 °C Max. Operating Temperature

Test Voltage (AC 2 Kv)

Pb Lead Free

300/300V 300/500V Rated Voltage Uo/U

Flame Propagation Test on Single Cable
EN / IEC 60332-1-2

Min. Bending Radius
D≤ 12 5xD
D>12 6xD

### APPLICATION AREAS

Devices with little mechanical force and operating in dry places.

## TECHNICAL DATA Cu/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| A03VH-H | | | | |
| 2x0,50 | 2,5x5 | 22 | 39 | 3 |
| 2x0,75 | 2,7x5,5 | 29 | 26 | 6 |
| A05VH-H | | | | |
| 2x1 | 3,1x6,4 | 36 | 19,5 | 10 |
| 2x1,5 | 3,4x7,0 | 46 | 13,3 | 16 |
| 2x2,5 | 3,8x7,8 | 65 | 7,98 | 25 |
| 2x4 | 4,5x9,2 | 99 | 4,95 | 32 |
| 2x6 | 5,3x10,8 | 142 | 3,3 | 40 |

# CONSTRUCTION

## PVC Insulated Heat Resistant Flexible Multi-Core Cables


① HR-PVC **INSULATION**
High Temperature Resistant Polyvinyl Chloride

② **CONDUCTOR**
Thin Multi-Wire Copper

③ HR-PVC **OUTER SHEATH**
High Temperature Resistant Polyvinyl Chloride

| CODE | H03V2V2-F / 60227 IEC 56 | H05V2V2-F / 60227 IEC 57 | |
|---|---|---|---|
| STANDARDS | TS EN 50525-2-11 | BS EN 50525-2-11 | IEC 60227-5 |

### TECHNICAL SPECIFICATIONS

150 °C Max. Short Circuit Temperature

90 °C Max. Operating Temperature

Test Voltage (2 Kv)

Pb Lead Free

300/300V 300/500V Rated Voltage Uo/U

Flame Propagation Test on Single Cable
EN / IEC 60332-1-2

Min. Bending Radius
D≤ 12 5xD
D>12 6xD

It's used as a connection cable in damp places with little mechanical force and generally in household appliances.

### TECHNICAL DATA Cu/HR-PVC/HR-PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| **H03V2V2-F / 60227 IEC 56** | | | | |
| 2x0,50 | 5 | 37 | 39 | 3 |
| 2x0,75 | 5,5 | 46 | 26 | 6 |
| 3x0,50 | 5,3 | 43 | 39 | 3 |
| 3x0,75 | 6,3 | 61 | 26 | 6 |
| 4x0,50 | 5,8 | 53 | 39 | 3 |
| 4x0,75 | 6,4 | 68 | 26 | 6 |
| **H05V2V2-F / 60227 IEC 57** | | | | |
| 2x0,75 | 6,3 | 57 | 26 | 6 |
| 2x1 | 6,6 | 65 | 19,5 | 10 |
| 2x1,5 | 7,4 | 84 | 13,3 | 16 |
| 2x2,5 | 9,1 | 130 | 7,98 | 25 |
| 2x4 | 10,4 | 179 | 4,95 | 32 |
| 3x0,75 | 6,7 | 68 | 26 | 6 |
| 3x1 | 7 | 78 | 19,5 | 10 |
| 3x1,5 | 8,1 | 106 | 13,3 | 16 |
| 3x2,5 | 9,9 | 163 | 7,98 | 25 |
| 3x4 | 11,3 | 227 | 4,95 | 32 |
| 4x0,75 | 7,3 | 87 | 26 | 6 |
| 4x1 | 7,9 | 100 | 19,5 | 10 |
| 4x1,5 | 9 | 134 | 13,3 | 16 |
| 4x2,5 | 10,8 | 201 | 8,0 | 25 |
| 4x4 | 12,3 | 280 | 4,95 | 32 |
| 5x0,75 | 8,1 | 102 | 26 | 6 |
| 5x1 | 8,6 | 120 | 19,5 | 10 |
| 5x1,5 | 10 | 166 | 13,3 | 16 |
| 5x2,5 | 12 | 249 | 7,98 | 25 |
| 5x4 | 13,9 | 355 | 4,95 | 32 |

# CONSTRUCTION

## PVC Insulated Heat Resistant Flexible Flat Cables


① HR-PVC **INSULATION**
High Temperature Resistant Polyvinyl Chloride

② **CONDUCTOR**
Thin Multi-Wire Copper

③ HR-PVC **OUTER SHEATH**
High Temperature Resistant Polyvinyl Chloride

| CODE | H03V2V2H2-F / 60227 IEC 56 | H05V2V2H2-F / 60227 IEC 57 |
|---|---|---|
| STANDARDS | TS EN 50525-2-11 | BS EN 50525-2-11 | IEC 60227-5 |

### TECHNICAL SPECIFICATIONS

150 °C Max. Short Circuit Temperature

90 °C Max. Operating Temperature

Test Voltage (AC 2 Kv)

Min. Bending Radius

D≤ 12 5xD
D>12 6xD

300/300V 300/500V Rated Voltage Uo/U

Single Cable Vertical Flame Spread Test
EN / IEC 60332-1-2

### APPLICATION AREAS

It's used in low-voltage household appliances with little mechanical stress at high temperatures.

## TECHNICAL DATA Cu/HR-PVC/HR-PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| H03V2V2H2-F / 60227 IEC 56 | | | | |
| 2x0,50 | 3,1x5 | 30 | 39 | 3 |
| 2x0,75 | 3,4x5,5 | 37 | 26 | 6 |
| H05V2V2H2-F / 60227 IEC 57 | | | | |
| 2x0,75 | 4x6,3 | 47 | 26 | 6 |
| 2x1 | 4,1x6,6 | 54 | 19,5 | 10 |
| 2x1,5 | 4,5x7,4 | 70 | 13,3 | 16 |

# CONSTRUCTION

3182A / 3183A
3184A / 3185A

## PVC Insulated Cold Resistant Flexible Cable


① CR-PVC **INSULATION**
Cold Resistant
Polyvinyl Chloride

② **CONDUCTOR**
Thin Multi-Wire Copper

③ CR-PVC **OUTER SHEATH**
Cold Resistant
Polyvinyl Chloride

| CODE | A05V3V3-F |
|---|---|
| STANDARDS | BS 6004 |

### TECHNICAL SPECIFICATIONS

160 °C Max. Short Circuit Temperature

60 °C Max. Operating Temperature

Test Voltage (AC 2 Kv)

Min. Bending Radius

D≤ 12 5xD
D>12 6xD

300/500V Rated Voltage Uo/U

Single Cable Vertical Flame Spread Test
EN / IEC 60332-1-2

It's used in low-voltage household appliances with little mechanical stress at high temperatures.

APPLICATION AREAS

## TECHNICAL DATA Cu/HR-PVC/HR-PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| A05V3V3-F | | | | |
| 2x0,75 | 6,3 | 57 | 26 | 6 |
| 2x1 | 6,6 | 65 | 19,5 | 10 |
| 2x1,5 | 7,8 | 91 | 13,3 | 16 |
| 2x2,5 | 9,1 | 130 | 7,98 | 25 |
| 2x4 | 10,6 | 184 | 4,95 | 32 |
| 3x0,75 | 6,7 | 68 | 26 | 6 |
| 3x1 | 7 | 78 | 19,5 | 10 |
| 3x1,5 | 8,1 | 106 | 13,30 | 16 |
| 3x2,5 | 9,9 | 163 | 7,98 | 25 |
| 3x4 | 11,3 | 227 | 4,95 | 32 |
| 4x0,75 | 7,3 | 82 | 26 | 6 |
| 4x1 | 7,9 | 100 | 19,5 | 10 |
| 4x1,5 | 9 | 134 | 13,3 | 16 |
| 4x2,5 | 10,8 | 200 | 7,98 | 25 |
| 4x4 | 12,3 | 280 | 4,95 | 32 |
| 5x0,75 | 8,1 | 102 | 26 | 6 |
| 5x1 | 8,6 | 120 | 19,5 | 10 |
| 5x1,5 | 10 | 166 | 13,3 | 16 |
| 5x2,5 | 12 | 249 | 7,98 | 25 |
| 5x4 | 13,9 | 355 | 4,95 | 32 |

# CONSTRUCTION

## Halogen Free Flame Retardant Flexible Cable


① LSZH INSULATION
Low Smoke Zero Halogen

② CONDUCTOR
Thin Multi-Wire Copper

③ LSZH OUTER SHEATH
Low Smoke Zero Halogen

| CODE | H03Z1Z1-F /62821 IEC 101 | H05Z1Z1-F / 62821 IEC 102 |
|---|---|---|
| STANDARDS | TS EN 50525-3-11 | BS EN 50525-3-11 IEC 62821-3 |

### TECHNICAL SPECIFICATIONS

150 °C Max. Short Circuit Temperature

60 °C Max. Operating Temperature

Test Voltage (AC 2 Kv)

Low Smoke Density (EN 61034-2)

Min. Bending Radius

| | |
|---|---|
| D<8 | 4xD |
| 8<D<12 | 5xD |
| D>12 | 6xD |

300/300V 300/500V Rated Voltage Uo/U

Flame Propagation Test on Single Cable
EN / IEC 60332-1-2

Halogen Free (EN 60754-1 / EN 60754-2)

It's used in refineries , hotels , schools tunnels , high buildings , Hospitals data processing centers and business centers where people are Concentrated as well as in fire-sensitive areas.

## TECHNICAL DATA Cu/LSZH/LSZH

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| **H03Z1Z1-F / 62821 IEC 101** | | | | |
| 2x0,5 | 5 | 40 | 39 | 3 |
| 2x0,75 | 5,5 | 50 | 26 | 6 |
| 3x0,50 | 5,3 | 44 | 39 | 3 |
| 3x0,75 | 5,8 | 54 | 26 | 6 |
| 4x0,50 | 5,8 | 54 | 39 | 3 |
| 4x0,75 | 6,4 | 68 | 26 | 6 |
| **H05Z1Z1-F / 62821 IEC 102** | | | | |
| 2x0,75 | 6,3 | 57 | 26 | 6 |
| 2x1 | 6,6 | 65 | 19,5 | 10 |
| 2x1,5 | 7,4 | 84 | 13,3 | 16 |
| 2x2,5 | 9,1 | 130 | 7,98 | 25 |
| 2x4 | 10,4 | 180 | 4,95 | 32 |
| 3x0,75 | 6,7 | 68 | 26 | 6 |
| 3x1 | 7 | 78 | 19,5 | 10 |
| 3x1,5 | 8,1 | 107 | 13,3 | 16 |
| 3x2,5 | 9,9 | 164 | 7,98 | 25 |
| 3x4 | 11,3 | 278 | 4,95 | 32 |
| 4x0,75 | 7,3 | 83 | 26,0 | 6 |
| 4x1 | 7,9 | 101 | 19,5 | 10 |
| 4x1,5 | 9 | 134 | 13,3 | 16 |
| 4x2,5 | 10,8 | 201 | 8 | 25 |
| 4x4 | 12,3 | 281 | 4,95 | 32 |
| 5x0,75 | 8,1 | 107 | 26 | 6 |
| 5x1 | 8,6 | 121 | 19,5 | 10 |
| 5x1,5 | 10 | 166 | 13,3 | 16 |
| 5x2,5 | 12 | 250 | 7,98 | 25 |
| 5x4 | 13,9 | 366 | 4,95 | 32 |

# CONSTRUCTION

## PVC Insulated PVC Sheathed Cables

**UK CODE**
**6181 Y**


1 PVC — INSULATION
Polyvinly Chloride

2 — CONDUCTOR
Solid or Stranded
Copper

3 PVC — OUTER SHEATH
Polyvinly Chloride

| CODE | Cu/PVC/PVC - 6181 Y | |
|---|---|---|
| STANDARDS | BS 6004 | IEC 60502-1 |

### TECHNICAL SPECIFICATIONS

- 160 °C — Max. Short Circuit Temperature
- 70 °C — Max. Operating Temperature
- Test Voltage (AC 2 Kv / 3,5 kV)
- Pb — Lead Free
- Min. Bending Radius
  - D≤25mm² 8xD
  - D>25mm² 12xD
- 300/500V 600/1000V — Rated Voltage Uo/U
- Flame Propagation Test on Single Cable
  EN / IEC 60332-1-2

**APPLICATION AREAS**

It's used in flush-mounted channels and boards.

### TECHNICAL DATA — Cu/PVC/PVC

**re:Solid Conductor**
**rm:Stranded Conductor**
*** 300/500 V**

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| 6181Y | | | | |
| 1*re | 3,9 | 26 | 18,1 | 13,5 |
| 1,5*re | 4,4 | 33 | 12,1 | 17,5 |
| 2,5*re | 5 | 46 | 7,41 | 24 |
| 4*rm | 6 | 69 | 4,61 | 32 |
| 6*rm | 6,5 | 89 | 3,08 | 41 |
| 10*rm | 7,8 | 139 | 1,83 | 57 |
| 16* | 9,1 | 207 | 1,15 | 76 |
| 25* | 11 | 312 | 0,727 | 101 |
| 35* | 12,1 | 410 | 0,524 | 125 |
| 50 | 13,8 | 557 | 0,387 | 151 |
| 70 | 15,6 | 71 | 0,268 | 192 |
| 95 | 18,2 | 1060 | 0,193 | 232 |
| 120 | 19,9 | 1307 | 0,153 | 269 |
| 150 | 21,8 | 1599 | 0,124 | 300 |
| 185 | 23,8 | 1977 | 0,0991 | 341 |
| 240 | 27,8 | 2608 | 0,0754 | 400 |
| 300 | 32,5 | 3355 | 0,0601 | 458 |

# CONSTRUCTION

**UK CODE**
**6381 Y**

## PVC Insulated PVC Sheathed Flexible Cables


① PVC INSULATION
Polyvinyl Chloride

② CONDUCTOR
Thin Multi-Wire Copper

③ PVC OUTER SHEATH
Polyvinyl Chloride

| CODE | Cu/PVC/PVC - 6381 Y | |
|---|---|---|
| STANDARDS | Gen.to BS 6004 | IEC 60502-1 |

## TECHNICAL SPECIFICATIONS

- 160 °C Max. Short Circuit Temperature
- 70 °C Max. Operating Temperature
- Test Voltage (AC 2 Kv / 3,5 kV)
- Pb Lead Free
- Min. Bending Radius
  D≤25mm² 8xD
  D>25mm² 12xD
- 300/500V 600/1000V Rated Voltage Uo/U
- Flame Propagation Test on Single Cable
  EN / IEC 60332-1-2

**APPLICATION AREAS**

It's used in flush-mounted channels and boards.

## TECHNICAL DATA Cu/PVC/PVC

*** 450/750 V**

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| 6381 Y | | | | |
| 4* | 6,9 | 82 | 4,95 | 32 |
| 6* | 7,4 | 104 | 3,3 | 41 |
| 10* | 8,9 | 157 | 1,91 | 57 |
| 16* | 10 | 220 | 1,21 | 76 |
| 25* | 12,2 | 330 | 0,780 | 101 |
| 35* | 13,4 | 431 | 0,554 | 125 |
| 50 | 14,9 | 575 | 0,386 | 151 |
| 70 | 16,6 | 764 | 0,272 | 192 |
| 95 | 19,5 | 1033 | 0,206 | 232 |
| 120 | 20,6 | 1265 | 0,161 | 269 |
| 150 | 23 | 1572 | 0,129 | 300 |
| 185 | 26,2 | 1931 | 0,106 | 341 |
| 240 | 29 | 2470 | 0,0801 | 400 |
| 300 | 31,8 | 3067 | 0,0641 | 458 |
| 400 | 39,2 | 4148 | 0,0486 | 546 |

# CONSTRUCTION

## XLPE Insulated PVC Sheathed Cables

**UK CODE**
**6181 Y**


1 XLPE — INSULATION
Cross-Linked Polyethylene

2 — CONDUCTOR
Solid or Stranded Copper

3 PVC — OUTER SHEATH
Polyvinly Chloride

| CODE | Cu/XLPE/PVC - 6181 XY | |
|---|---|---|
| STANDARDS | BS 7889 | IEC 60502-1 |

## TECHNICAL SPECIFICATIONS

- 250 °C — Max. Short Circuit Temperature
- 90 °C — Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb — Lead Free
- Min. Bending Radius
  - D≤25mm² 4xD
  - D>25mm² 6xD
- 600/1000V — Rated Voltage Uo/U
- Flame Propagation Test on Single Cable
  EN / IEC 60332-1-2

**APPLICATION AREAS**

It's used in flush-mounted channels and boards.

## TECHNICAL DATA Cu/XLPE/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| 6181 XY | | | | |
| 1,5 | 4,4 | 31 | 12,1 | 23 |
| 2,5 | 4,8 | 42 | 7,41 | 51 |
| 4 | 5,7 | 43 | 4,61 | 42 |
| 6 | 6,2 | 83 | 3,08 | 54 |
| 10 | 7,1 | 124 | 1,83 | 75 |
| 16 | 8,4 | 188 | 1,15 | 100 |
| 25 | 9,9 | 281 | 0,727 | 133 |
| 35 | 10,9 | 374 | 0,524 | 164 |
| 50 | 13 | 518 | 0,387 | 198 |
| 70 | 14,7 | 723 | 0,268 | 253 |
| 95 | 16,6 | 973 | 0,103 | 206 |
| 120 | 18,5 | 1217 | 0,153 | 354 |
| 150 | 20,4 | 1495 | 0,124 | 393 |
| 185 | 22,2 | 1848 | 0,0991 | 449 |
| 240 | 25,4 | 2404 | 0,0754 | 528 |
| 300 | 28,9 | 3125 | 0,0601 | 603 |

# CONSTRUCTION

**UK CODE**
**6381 Y**

## XLPE Insulated PVC Sheathed Flexible Cables


① XLPE — INSULATION
Cross-Linked Polyethylene

② CONDUCTOR
Thin Multi-Wire Copper

③ PVC — OUTER SHEATH
Polyvinyl Chloride

| CODE | Cu/XLPE/PVC - 6381 XY | |
|---|---|---|
| STANDARDS | Gen.to BS 7889 | IEC 60502-1 |

## TECHNICAL SPECIFICATIONS

- 250 °C — Max. Short Circuit Temperature
- 90 °C — Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb — Lead Free
- Min. Bending Radius
  - D≤25mm² 4xD
  - D>25mm² 6xD
- 600/1000V — Rated Voltage Uo/U
- Flame Propagation Test on Single Cable
  EN / IEC 60332-1-2

**APPLICATION AREAS**

It's used in flush-mounted channels and boards.

## TECHNICAL DATA — Cu/XLPE/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| 6381 XY | | | | |
| 4 | 6,3 | 69 | 4,95 | 42 |
| 6 | 6,8 | 90 | 3,30 | 54 |
| 10 | 8,3 | 140 | 1,91 | 75 |
| 16 | 9,5 | 201 | 1,21 | 100 |
| 25 | 11,2 | 292 | 0,780 | 133 |
| 35 | 12,3 | 338 | 0,554 | 164 |
| 50 | 14 | 531 | 0,386 | 198 |
| 70 | 16 | 721 | 0,272 | 253 |
| 95 | 18 | 959 | 0,206 | 306 |
| 120 | 19,8 | 1199 | 0,161 | 354 |
| 150 | 22,2 | 1494 | 0,129 | 393 |
| 185 | 25,4 | 1838 | 0,106 | 449 |
| 240 | 28 | 2350 | 0,0801 | 528 |
| 300 | 30,6 | 2918 | 0,0641 | 603 |
| 400 | 38 | 3951 | 0,0486 | 683 |

# CONSTRUCTION

**UK CODE**
**6192 Y / 6193 Y**

## PVC Insulated PVC Sheathed Flat Cables


1 PVC INSULATION
Polyvinly Chloride

2 CONDUCTOR
Solid or Stranded
Copper

3 PVC OUTER SHEATH
Polyvinly Chloride

| | |
|---|---|
| CODE | 6192Y / 6193 Y |
| STANDARDS | BS 6004 |

**TECHNICAL SPECIFICATIONS**

- 160 °C Max. Short Circuit Temperature
- 70 °C Max. Operating Temperature
- Test Voltage (AC 2 kV)
- Pb Lead Free
- Min. Bending Radius
  8xD
- 300/500V Rated Voltage Uo/U
- Flame Propagation Test on Single Cable
  EN / IEC 60332-1-2

**APPLICATION AREAS**

It's used in indoor installations that do not carry the risk of mechanical damage in surface-mounted applications.

**re:Solid Conductor**
**rm:Stranded Conductor**

## TECHNICAL DATA — Cu/PVC/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| BS 6004 FLAT TWIN 6192-Y / 6193-Y | | | | |
| 2x1re | 4,8x7,4 | 60 | 18,1 | 13 |
| 2x1,5re | 5,3x8,5 | 75 | 12,1 | 16 |
| 2x1,5rm | 5,4x8,7 | 76 | 12,1 | 16 |
| 2x2,5re | 6,2x10,1 | 112 | 7,41 | 21 |
| 2x2,5rm | 6,3x10,3 | 113 | 7,41 | 21 |
| 2x4rm | 6,9x11,5 | 154 | 4,61 | 27 |
| 2x6rm | 7,8x13 | 203 | 3,08 | 34 |
| 2x10rm | 9,5x16,2 | 315 | 1,83 | 45 |
| 2x16rm | 10,8x18,6 | 448 | 1,15 | 57 |
| 3x1re | 4,8x10,1 | 85 | 18,1 | 13 |
| 3x1,5re | 5,3x11,7 | 106 | 12,1 | 16 |
| 3x2,5re | 6,2x14 | 159 | 7,41 | 21 |
| 3x4rm | 7,1x16,3 | 222 | 4,61 | 27 |
| 3x6rm | 7,8x18,2 | 293 | 3,08 | 34 |
| 3x10rm | 9,5x13 | 457 | 1,83 | 45 |
| 3x16rm | 10,8x26,3 | 654 | 1,15 | 57 |

# CONSTRUCTION

UK KODU
6241Y / 6242Y / 6243Y

## PVC Insulated , PVC Sheathed with Circuit Protection Conductor Flat Cables


1 PVC INSULATION
Polyvinly Chloride

2 CONDUCTOR
Solid or Stranded
Copper

3 PVC OUTER SHEATH
Polyvinly Chloride

| CODE | PVC FLAT TWIN 624-Y |
|---|---|
| STANDARDS | BS 6004 |

## TECHNICAL SPECIFICATIONS

160 °C Max. Short Circuit Temperature

70 °C Max. Operating Temperature

Test Voltage (AC 2 kV)

Pb Lead Free

Min. Bending Radius
8xD

300/500V Rated Voltage Uo/U

Flame Propagation Test on Single Cable
EN / IEC 60332-1-2

**APPLICATION AREAS**

It's used in indoor installations that do not carry the risk of mechanical damage and in surface-mounted applications.

**re:Solid Conductor**
**rm:Stranded Conductor**

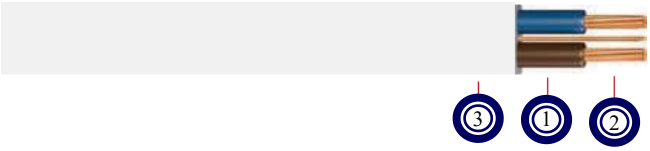
## TECHNICAL DATA — Cu/PVC/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| BS 6004 FLAT TWIN 624-Y | | | | |
| 1x1+1re | 4,8x6 | 41 | 18,1/18,1 | 13 |
| 1x1,5+1re | 5,3x6,6 | 48 | 12,1/18,1 | 16 |
| 1x1,5+1rm | 5,4x6,7 | 49 | 12,1/18,1 | 16 |
| 2x1+1re | 4,8x8,7 | 67 | 18,1/18,1 | 13 |
| 2x1,5+1re | 5,3x9,7 | 83 | 12,1/18,1 | 16 |
| 2x1,5+1rm | 5,4x10 | 84 | 12,1/18,1 | 16 |
| 2x2,5+1,5re | 6,2x11,7 | 120 | 7,41/12,1 | 21 |
| 2x2,5+1,5re | 6,3x11,9 | 121 | 7,41/12,1 | 21 |
| 2x4+1,5rm | 6,9x13,1 | 172 | 4,61/12,1 | 27 |
| 2x6+2,5rm | 7,8x15 | 235 | 3,08/7,41 | 34 |
| 2x10+4rm | 9,5x18,9 | 373 | 1,83/4,61 | 45 |
| 2x16+6rm | 10,8x21,9 | 530 | 1,15/3,08 | 57 |
| 3x1+1re | 4,8x11,4 | 91 | 18,1/18,1 | 13 |
| 3x1,5+1re | 5,3x12,9 | 117 | 12,1/18,1 | 16 |
| 3x2,5+1,5re | 6,2x15,3 | 172 | 7,41/12,1 | 21 |
| 3x4+1,5rm | 7,1x17,9 | 243 | 4,61/12,1 | 27 |
| 3x6+2,5rm | 7,8x20,2 | 315 | 3,08/7,41 | 34 |
| 3x10+4rm | 9,5x25,7 | 516 | 1,83/4,61 | 15 |
| 3x16+6rm | 10,8x29,7 | 735 | 1,15/3,08 | 57 |

# CONSTRUCTION

## XLPE Insulated LSZH Sheathed with Circuit Protection Conductor Flat Cables

**UK KODU**
**6241B / 6242B / 6243B**




1 XLPE — INSULATION
Cross-Linked Polyethylene

2 — CONDUCTOR
Solid or Stranded Copper

3 LSZH — OUTER SHEATH
Low Smoke Zero Halogen

| CODE | LSZH FLAT TWIN 624-B |
|---|---|
| STANDARDS | BS 7211 |

**TECHNICAL SPECIFICATIONS**

- 250 °C — Max. Short Circuit Temperature
- 90 °C — Max. Operating Temperature
- Test Voltage (AC 2 kV)
- Pb — Lead Free
- Min. Bending Radius
  8xD
- 300/500V — Rated Voltage Uo/U
- Flame Propagation Test on Single Cable
  EN / IEC 60332-1-2
- Halogen Free (EN 60754-1 / EN 60754-2)
- Low Smoke Density (EN 61034-2)

**APPLICATION AREAS**

It's used in indoor installations that do not carry the risk of mechanical damage , in surface mounted applications. It has the property of low level of smoke and toxic gas extraction in fire.

**re:Solid Conductor**
**rm:Stranded Conductor**

## TECHNICAL DATA — Cu/XLPE/LSZH

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| LSZH FLAT TWIN 624-B | | | | |
| 1x1+1re | 5X6,3 | 42 | 18,1/18,1 | 17 |
| 1x1,5+1re | 5,3X6,6 | 48 | 12,1/18,1 | 23 |
| 2x1+1re | 5X9,1 | 65 | 18,1/18,1 | 17 |
| 2x1+1rm | 5,1X9,4 | 65 | 18,1/18,1 | 17 |
| 2x1,5+1rm | 5,3X9,7 | 76 | 12,1/18,1 | 23 |
| 2x1,5+1rm | 5,4X10 | 76 | 12,1/18,1 | 23 |
| 2x2,5+1,5re | 6x11,2 | 108 | 7,41/12,1 | 31 |
| 2x2,5+1,5rm | 6,1x11,4 | 108 | 7,41/12,1 | 31 |
| 2x4+1,5rm | 6,7x12,6 | 148 | 4,61/12,1 | 42 |
| 2x6+2,5rm | 7,5x14,6 | 208 | 3,08/7,41 | 54 |
| 2x10+4rm | 8,8x17,6 | 317 | 1,83/4,61 | 75 |
| 2x16+6rm | 10,1x20,5 | 478 | 1,15/3,08 | 100 |
| 3x1+1re | 5,1x12,1 | 87 | 18,1/18,1 | 17 |
| 3x1,5+1re | 5,3x12,9 | 104 | 12,1/18,1 | 23 |
| 3x2,5+1re | 6x14,6 | 142 | 7,41/18,1 | 31 |
| 3x4+1,5rm | 6,7x16,9 | 207 | 4,61/12,1 | 42 |
| 3x6+2,5rm | 7,5x19,5 | 291 | 3,08/7,41 | 54 |
| 3x10+4rm | 8,8x23,6 | 442 | 1,83/4,61 | 75 |
| 3x16+6rm | 10,1x27,6 | 671 | 1,15/3,08 | 100 |

# CONSTRUCTION

## PVC Insulated PVC Sheathed Multi-Core Installation Cables


1 PVC INSULATION Polyvinyl Chloride

2 CONDUCTOR Solid or Stranded Copper

3 PVC FILLER Polyvinyl Chloride

4 PVC OUTER SHEATH Polyvinyl Chloride

| CODE | NYM / NVV / 05VV-U / 05VV-R / 60227 IEC 10 |
|---|---|
| STANDARDS | TS HD 21.4 S2 DIN VDE 0250-204 IEC 60227-4 |

### TECHNICAL SPECIFICATIONS

- 160 °C Max. Short Circuit Temperature
- 70 °C Max. Operating Temperature
- Test Voltage (AC 2 kV)
- Pb Lead Free
- Min. Bending Radius 12xD
- 300/500V Rated Voltage Uo/U
- Flame Propagation Test on Single Cable EN / IEC 60332-1-2

### APPLICATION AREAS

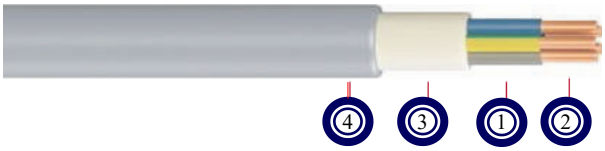
Damp places where there is no mechanical stres , flush-mounted or surface-mounted installations.

## TECHNICAL DATA Cu/PVC/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| NYM / NVV/ 60227 IEC 10 | | | | |
| 2x1,5 | 8,8 | 121 | 12,1 | 22 |
| 2x2,5 | 10 | 163 | 7,41 | 30 |
| 2x4 | 10,9 | 212 | 4,61 | 40 |
| 2x6 | 11,8 | 270 | 3,08 | 51 |
| 2x10 | 15,7 | 498 | 1,83 | 70 |
| 2x16 | 18,4 | 698 | 1,15 | 94 |
| 2x25 | 20,8 | 1001 | 0,727 | 119 |
| 2x35 | 23,4 | 1320 | 0,524 | 148 |
| 3x1,5 | 8,9 | 134 | 12,1 | 16,5 |
| 3x2,5 | 10,5 | 194 | 7,41 | 23 |
| 3x4 | 11,4 | 254 | 4,61 | 30 |
| 3x6 | 12,9 | 343 | 3,08 | 38 |
| 3x10 | 16,4 | 605 | 1,83 | 52 |
| 3x16 | 18,7 | 858 | 1,15 | 69 |
| 3x25 | 22,2 | 1156 | 0,727 | 90 |
| 3x35 | 24,5 | 1500 | 0,524 | 111 |
| 4x1,5 | 9,9 | 168 | 12,1 | 16,5 |
| 4x2,5 | 11,3 | 233 | 7,41 | 23 |
| 4x4 | 10,3 | 333 | 4,61 | 30 |
| 4x6 | 14,2 | 430 | 3,08 | 38 |
| 4x10 | 18,2 | 770 | 1,83 | 52 |
| 4x16 | 20,9 | 1106 | 1,15 | 69 |

# CONSTRUCTION

## PVC Insulated PVC Sheathed Multi-Core Installation Cables




1 PVC INSULATION Polyvinyl Chloride

2 CONDUCTOR Solid or Stranded Copper

3 PVC FILLER Polyvinyl Chloride

4 PVC OUTER SHEATH Polyvinyl Chloride

| CODE | NYM / NVV / 05VV-U / 05VV-R / 60227 IEC 10 |
|---|---|
| STANDARDS | TS HD 21.4 S2 DIN VDE 0250-204 IEC 60227-4 |

### TECHNICAL SPECIFICATIONS

- 160 °C Max. Short Circuit Temperature
- 70 °C Max. Operating Temperature
- Test Voltage (AC 2 kV)
- Pb Lead Free
- Min. Bending Radius 12xD
- 300/500V Rated Voltage Uo/U
- Flame Propagation Test on Single Cable EN / IEC 60332-1-2

**APPLICATION AREAS**

Damp places where there is no mechanical stres , flush-mounted or surface-mounted installations.

## TECHNICAL DATA Cu/PVC/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| NYM / NVV/ 60227 IEC 10 | | | | |
| 4x25 | 24,5 | 1468 | 0,727 | 90 |
| 4x35 | 27,2 | 1921 | 0,524 | 111 |
| 5x1,5 | 10,9 | 200 | 12,1 | 16,5 |
| 5x2,5 | 12,5 | 280 | 7,41 | 23 |
| 5x4 | 14,1 | 395 | 4,61 | 30 |
| 5x6 | 15,5 | 520 | 3,08 | 38 |
| 5x10 | 20,5 | 860 | 1,83 | 52 |
| 5x16 | 23,8 | 1300 | 1,15 | 69 |

# CONSTRUCTION

## PVC Insulated Low Voltage Power Cables


1 PVC INSULATION
Polyvinyl Chloride

2 CONDUCTOR
Solid or Stranded Copper

3 PVC OUTER SHEATH
Polyvinyl Chloride

| CODE | YVV-U / YVV-R / NYY | |
|---|---|---|
| STANDARDS | TS IEC 60502-1 | DIN VDE 0276-603 |

### TECHNICAL SPECIFICATIONS

- 160 °C Max. Short Circuit Temperature
- 70 °C Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb Lead Free
- Min. Bending Radius
  15xD
- 0.6 / 1 kV Rated Voltage Uo/U
- Flame Propagation Test on Single Cable
  EN / IEC 60332-1-2

**APPLICATION AREAS**

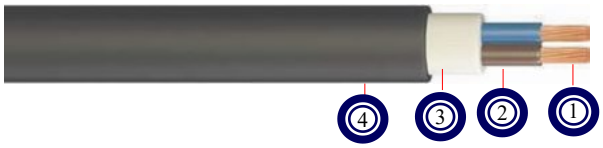
It's used under the ground and in cable ducts where there is not much stress

## TECHNICAL DATA Cu/PVC/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | | | |
|---|---|---|---|---|---|---|---|
| | | | | In the conduit (A) | | In the air (A) | |
| YVV-U / YVV-R / NYY | | | | ooo | oo | ooo | oo |
| 1x4 | 7,01 | 87 | 4,61 | 59 | 50 | 45 | 33 |
| 1x6 | 7,51 | 109 | 3,08 | 73 | 62 | 59 | 43 |
| 1x10 | 8,65 | 158 | 1,83 | 97 | 83 | 81 | 60 |
| 1x16 | 9,6 | 219 | 1,15 | 125 | 107 | 110 | 82 |
| 1x25 | 11 | 319 | 0,727 | 161 | 138 | 146 | 110 |
| 1x35 | 12,1 | 417 | 0,524 | 192 | 164 | 181 | 137 |
| 1x50 | 13,8 | 556 | 0,387 | 227 | 195 | 219 | 167 |
| 1x70 | 15,3 | 761 | 0,268 | 278 | 238 | 281 | 216 |
| 1x95 | 17,6 | 1033 | 0,193 | 332 | 286 | 341 | 264 |
| 1x120 | 19,5 | 1787 | 0,153 | 377 | 325 | 396 | 308 |
| 1x150 | 21 | 1563 | 0,124 | 423 | 365 | 456 | 356 |
| 1x185 | 23,2 | 1942 | 0,0991 | 478 | 413 | 501 | 400 |
| 1x240 | 26,6 | 2528 | 0,0754 | 555 | 470 | 615 | 485 |
| 1x300 | 29,2 | 3216 | 0,0601 | 627 | 541 | 709 | 561 |
| 1x400 | 35,2 | 1066 | 0,0470 | 725 | 614 | 852 | 656 |
| 1x500 | 39,8 | 5209 | 0,0366 | 818 | 608 | 982 | 710 |
| 1x630 | 46,2 | 6654 | 0,0283 | - | 777 | 1138 | 855 |

# CONSTRUCTION

## PVC Insulated Low Voltage Power Cables




1 PVC INSULATION Polyvinyl Chloride

2 CONDUCTOR Solid or Stranded Copper

3 PVC FILLER Polyvinyl Chloride

4 PVC OUTER SHEATH Polyvinyl Chloride

| CODE | YVV-U / YVV-R / NYY | |
|---|---|---|
| STANDARDS | TS IEC 60502-1 | DIN VDE 0276-603 |

### TECHNICAL SPECIFICATIONS

- 160 °C Max. Short Circuit Temperature
- 70 °C Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb Lead Free
- Min. Bending Radius 12xD
- 0.6 / 1 kV Rated Voltage Uo/U
- Flame Propagation Test on Single Cable EN / IEC 60332-1-2

**APPLICATION AREAS**

It's used under the ground and in cable ducts where there is not much stress

## TECHNICAL DATA Cu/PVC/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YVV-U / YVV-R / NYY | | | | | |
| 2x1,5 | 10,54 | 161 | 12,1 | 32 | 22 |
| 2x2,5 | 11,32 | 196 | 7,41 | 42 | 30 |
| 2x4 | 13,02 | 272 | 4,61 | 54 | 40 |
| 2x6 | 14,02 | 334 | 3,08 | 68 | 51 |
| 2x10 | 16,3 | 478 | 1,83 | 90 | 70 |
| 2x16 | 18,8 | 675 | 1,15 | 116 | 94 |
| 2x25 | 21,2 | 930 | 0,727 | 150 | 119 |
| 2x35 | 23,4 | 1196 | 0,524 | 181 | 148 |
| 3x1,5 | 10,8 | 17 | 12,1 | 27 | 19,5 |
| 3x2,5 | 11,9 | 229 | 7,41 | 36 | 25 |
| 3x4 | 13,7 | 322 | 4,61 | 47 | 34 |
| 3x6 | 14,8 | 403 | 3,08 | 59 | 43 |
| 3x10 | 17,5 | 596 | 1,83 | 79 | 59 |
| 3x16 | 19,5 | 813 | 1,15 | 102 | 79 |
| 3x25 | 22,6 | 1177 | 0,727 | 133 | 106 |
| 3x35 | 24,9 | 1521 | 0,524 | 159 | 129 |
| 3x50 | 28,8 | 2054 | 0,387 | 188 | 157 |
| 3x70 | 32,3 | 2792 | 0,268 | 232 | 199 |
| 3x95 | 37,1 | 3769 | 0,193 | 280 | 246 |
| 3x120 | 41 | 4675 | 0,153 | 318 | 285 |
| 3x150 | 44,5 | 5676 | 0,124 | 359 | 326 |
| 3x185 | 49,2 | 7033 | 0,0991 | 406 | 374 |
| 3x240 | 56,7 | 9215 | 0,0754 | 473 | 445 |

# CONSTRUCTION

## PVC Insulated Low Voltage Power Cables


① PVC INSULATION Polyvinyl Chloride

② CONDUCTOR Solid or Stranded Copper

③ PVC FILLER Polyvinyl Chloride

④ PVC OUTER SHEATH Polyvinyl Chloride

| CODE | YVV-U / YVV-R / NYY | |
|---|---|---|
| STANDARDS | TS IEC 60502-1 | DIN VDE 0276-603 |

### TECHNICAL SPECIFICATIONS

- 160 °C Max. Short Circuit Temperature
- 70 °C Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb Lead Free
- Min. Bending Radius 12xD
- 0.6 / 1 kV Rated Voltage Uo/U
- Flame Propagation Test on Single Cable EN / IEC 60332-1-2

**APPLICATION AREAS**

It's used under the ground and in cable ducts where there is not much stress

### TECHNICAL DATA Cu/PVC/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YVV-U / YVV-R / NYY | | | | | |
| 3x16+10 | 21,2 | 952 | 1,15/1,83 | 102 | 79 |
| 3x25+16 | 24,4 | 1363 | 0,727/1,15 | 133 | 106 |
| 3x35+16 | 26,8 | 1702 | 0,524/115 | 159 | 129 |
| 3x50+25 | 30,9 | 2310 | 0,387/0,727 | 188 | 157 |
| 3x70+35 | 34,4 | 3110 | 0,268/0,524 | 232 | 199 |
| 3x95+50 | 39,6 | 4209 | 0,193/0,387 | 280 | 246 |
| 3x120+70 | 43,9 | 5308 | 0,153/0,268 | 318 | 285 |
| 3x150+70 | 47,4 | 6253 | 0,124/0,268 | 359 | 326 |
| 3x185+95 | 52,4 | 7843 | 0,0991/0,193 | 406 | 374 |
| 3x240+120 | 59,9 | 10132 | 0,153/0,0754 | 473 | 445 |

# CONSTRUCTION

## PVC Insulated Low Voltage Power Cables


1 PVC INSULATION Polyvinyl Chloride

2 CONDUCTOR Solid or Stranded Copper

3 PVC FILLER Polyvinyl Chloride

4 PVC OUTER SHEATH Polyvinyl Chloride

| CODE | YVV-U / YVV-R / NYY | |
|---|---|---|
| STANDARDS | TS IEC 60502-1 | DIN VDE 0276-603 |

### TECHNICAL SPECIFICATIONS

- 160 °C Max. Short Circuit Temperature
- 70 °C Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb Lead Free
- Min. Bending Radius 12xD
- 0.6 / 1 kV Rated Voltage Uo/U
- Flame Propagation Test on Single Cable EN / IEC 60332-1-2

**APPLICATION AREAS**

It's used under the ground and in cable ducts where there is not much stress

### TECHNICAL DATA Cu/PVC/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YVV-U / YVV-R / NYY | | | | | |
| 4x1,5 | 12 | 222 | 12,1 | 27 | 18,5 |
| 4x2,5 | 13 | 280 | 7,41 | 36 | 25 |
| 4x4 | 15 | 398 | 4,61 | 47 | 34 |
| 4x6 | 16,2 | 500 | 3,08 | 59 | 43 |
| 4x10 | 19 | 734 | 1,83 | 79 | 60 |
| 4x16 | 21,5 | 1026 | 1,15 | 102 | 80 |
| 4x25 | 24,9 | 1490 | 0,727 | 133 | 101 |
| 4x35 | 27,6 | 1947 | 0,524 | 159 | 126 |
| 4x50 | 31,9 | 2621 | 0,387 | 188 | 153 |
| 4x70 | 35,9 | 3586 | 0,268 | 232 | 199 |
| 4x95 | 41,2 | 4841 | 0,193 | 280 | 246 |
| 4x120 | 45,5 | 6004 | 0,153 | 318 | 285 |
| 4x150 | 50,8 | 7449 | 0,124 | 359 | 326 |
| 4x185 | 55,6 | 9186 | 0,0991 | 406 | 374 |
| 4x240 | 64,7 | 12147 | 0,0754 | 473 | 445 |

# CONSTRUCTION

## PVC Insulated Low Voltage Flexible Power Cables

① PVC INSULATION
Polyvinyl Chloride

② CONDUCTOR
Thin Multi-Wire Copper

③ PVC OUTER SHEATH
Polyvinyl Chloride

| CODE | YVV-K / NYY-K / NYY FLEX | |
|---|---|---|
| STANDARDS | TS IEC 60502-1 | DIN VDE 0276-603 |

### TECHNICAL SPECIFICATIONS

- Max. Short Circuit Temperature 160 °C
- Max. Operating Temperature 70 °C
- Test Voltage (AC 3,5 kV)
- Lead Free
- Min. Bending Radius
  15xD
- Rated Voltage Uo/U 0.6 / 1 kV
- Flame Propagation Test on Single Cable
  EN / IEC 60332-1-2

**APPLICATION AREAS**

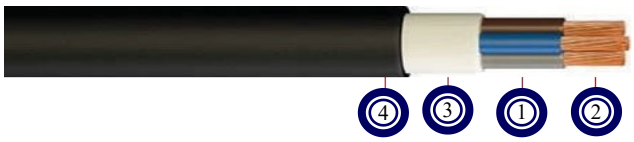
It's used under the ground and in cable ducts where there is not much stress

## TECHNICAL DATA Cu/PVC/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | | | |
|---|---|---|---|---|---|---|---|
| | | | | In the conduit (A) | | In the air (A) | |
| YVV-K / NYY-K / NYY FLEX | | | | ⁰⁰⁰ | ⁰⁰ | ⁰⁰⁰ | ⁰⁰ |
| 1x4 | 8,2 | 100 | 4,61 | 59 | 50 | 45 | 33 |
| 1x6 | 8,5 | 120 | 3,08 | 73 | 62 | 59 | 43 |
| 1x10 | 9,2 | 180 | 1,83 | 97 | 83 | 81 | 60 |
| 1x16 | 10,2 | 235 | 1,15 | 125 | 107 | 110 | 82 |
| 1x25 | 11,6 | 345 | 0,727 | 161 | 138 | 146 | 110 |
| 1x35 | 13,1 | 445 | 0,524 | 192 | 164 | 181 | 137 |
| 1x50 | 14,4 | 600 | 0,387 | 227 | 195 | 219 | 167 |
| 1x70 | 16,3 | 785 | 0,268 | 278 | 238 | 281 | 216 |
| 1x95 | 18,2 | 1050 | 0,193 | 332 | 286 | 341 | 264 |
| 1x120 | 20,5 | 1300 | 0,153 | 377 | 325 | 396 | 308 |
| 1x150 | 22,1 | 1570 | 0,124 | 423 | 365 | 456 | 356 |
| 1x185 | 24,6 | 2000 | 0,0991 | 478 | 413 | 521 | 409 |
| 1x240 | 27,3 | 2600 | 0,0754 | 555 | 479 | 615 | 485 |
| 1x300 | 30,2 | 3270 | 0,0601 | 627 | 541 | 709 | 561 |
| 1x400 | 33,5 | 4050 | 0,0470 | 725 | 614 | 852 | 656 |
| 1x500 | 38,1 | 5150 | 0,0366 | 818 | 698 | 982 | 749 |

# CONSTRUCTION

## PVC Insulated Low Voltage Flexible Power Cables




① PVC INSULATION Polyvinyl Chloride

② CONDUCTOR Thin Multi-Wire Copper

③ PVC OUTER SHEATH Polyvinyl Chloride

③ PVC FILLER Polyvinyl Chloride

| CODE | YVV-K (NYY FLEX) | |
|---|---|---|
| STANDARDS | TS IEC 60502-1 | DIN VDE 0276-603 |

### TECHNICAL SPECIFICATIONS

- 160 °C Max. Short Circuit Temperature
- 70 °C Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb Lead Free
- Min. Bending Radius 12xD
- 0.6 / 1 kV Rated Voltage Uo/U
- Flame Propagation Test on Single Cable EN / IEC 60332-1-2

### APPLICATION AREAS

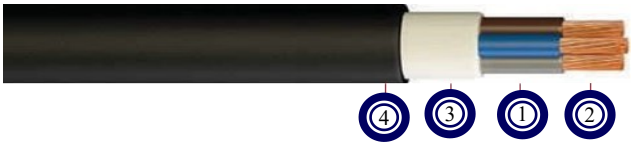
It's used under the ground and in cable ducts where there is not much stress

## TECHNICAL DATA Cu/PVC/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YVV-K (NYY FLEX) | | | | | |
| 2x6 | 12,2 | 250 | 3,3 | 68 | 51 |
| 2x10 | 15,8 | 424 | 1,91 | 90 | 70 |
| 2x16 | 18 | 588 | 1,21 | 116 | 94 |
| 2x25 | 23,7 | 1019 | 0,780 | 150 | 119 |
| 2x35 | 25,7 | 1269 | 0,554 | 181 | 148 |
| 2x50 | 30,1 | 1777 | 0,386 | 210 | 153 |
| 2x70 | 33,7 | 2302 | 0,272 | 254 | 196 |
| 3x6 | 13 | 305 | 3,30 | 59 | 43 |
| 3x10 | 16,8 | 515 | 1,91 | 79 | 59 |
| 3x16 | 20,7 | 851 | 1,21 | 102 | 79 |
| 3x25 | 24,4 | 1221 | 0,780 | 133 | 106 |
| 3x35 | 27,1 | 1602 | 0,554 | 159 | 129 |
| 3x50 | 31,4 | 2210 | 0,386 | 188 | 157 |
| 3x70 | 35,2 | 2909 | 0,272 | 232 | 199 |
| 3x95 | 41,2 | 3932 | 0,206 | 280 | 246 |
| 3x120 | 43,6 | 4733 | 0,161 | 318 | 285 |
| 3x150 | 48,3 | 5841 | 0,129 | 359 | 326 |
| 3x185 | 55,4 | 7317 | 0,106 | 406 | 374 |
| 3x240 | 61,7 | 9340 | 0,0801 | 473 | 445 |
| 3x16+10 | 21,9 | 981 | 1,21/1,91 | 102 | 79 |
| 3x25+16 | 25,8 | 1421 | 0,780/1,21 | 133 | 106 |
| 3x35+16 | 28,1 | 1757 | 0,554/1,21 | 159 | 129 |
| 3x50+25 | 32,8 | 2493 | 0,386/0,780 | 188 | 157 |
| 3x70+35 | 36,8 | 3295 | 0,272/0,554 | 232 | 199 |
| 3x95+50 | 42,5 | 4396 | 0,206/0,386 | 280 | 246 |
| 3x120+70 | 46,2 | 5489 | 0,161/0,272 | 318 | 285 |
| 3x150+70 | 50,4 | 6583 | 0,129/0,272 | 359 | 326 |
| 3x185+95 | 58,1 | 8336 | 0,106/0,206 | 406 | 374 |
| 3x240+120 | 64,5 | 10625 | 0,0801/0,161 | 473 | 445 |

# CONSTRUCTION

## PVC Insulated Low Voltage Flexible Power Cables




① PVC INSULATION Polyvinyl Chloride

② CONDUCTOR Thin Multi-Wire Copper

③ PVC OUTER SHEATH Polyvinyl Chloride

③ PVC FILLER Polyvinyl Chloride

| CODE | YVV-K / NYY-K / NYY FLEX | |
|---|---|---|
| STANDARDS | TS IEC 60502-1 | DIN VDE 0276-603 |

### TECHNICAL SPECIFICATIONS

- 160 °C Max. Short Circuit Temperature
- 70 °C Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb Lead Free
- Min. Bending Radius 12xD
- 0.6 / 1 kV Rated Voltage Uo/U
- Flame Propagation Test on Single Cable EN / IEC 60332-1-2

### APPLICATION AREAS

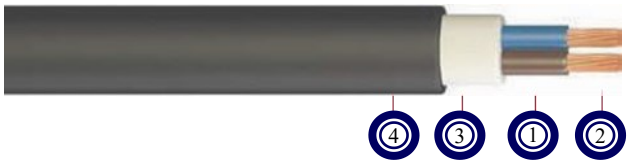
It's used under the ground and in cable ducts where there is not much stress

## TECHNICAL DATA Cu/PVC/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YVV-K / NYY-K / NYY FLEX | | | | | |
| 4x6 | 15,8 | 423 | 3,3 | 59 | 43 |
| 4x10 | 20 | 764 | 1,91 | 79 | 60 |
| 4x16 | 22,5 | 1047 | 1,21 | 102 | 80 |
| 4x25 | 26,8 | 1526 | 0,780 | 133 | 101 |
| 4x35 | 30,1 | 2038 | 0,554 | 159 | 126 |
| 4x50 | 34,8 | 2801 | 0,386 | 188 | 153 |
| 4x70 | 39,2 | 3717 | 0,272 | 232 | 199 |
| 4x95 | 45,4 | 4967 | 0,206 | 280 | 246 |
| 4x120 | 48,3 | 6032 | 0,161 | 318 | 285 |
| 4x150 | 53,3 | 7412 | 0,129 | 359 | 326 |
| 5x4 | 16 | 469 | 4,95 | 47 | 34 |
| 5x6 | 17,4 | 597 | 3,3 | 59 | 43 |
| 5x10 | 20,6 | 890 | 1,91 | 79 | 60 |
| 5x16 | 25,2 | 1317 | 1,21 | 102 | 80 |

# CONSTRUCTION

## XLPE Insulated Low Voltage Power Cables




① XLPE **INSULATION** Cross-Linked

② **CONDUCTOR** Solid or Stranded Copper

③ PVC **FILLER** Polyvinyl Chloride

④ PVC **OUTER SHEATH** Polyvinyl Chloride

| CODE | YXV / N2XY | |
|---|---|---|
| STANDARDS | TS IEC 60502-1 | DIN VDE 0276-603 |

### TECHNICAL SPECIFICATIONS

- 250 °C Max. Short Circuit Temperature
- 90 °C Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb Lead Free
- Min. Bending Radius 12xD
- 0.6 / 1 kV Rated Voltage Uo/U
- Flame Propagation Test on Single Cable EN / IEC 60332-1-2

### APPLICATION AREAS

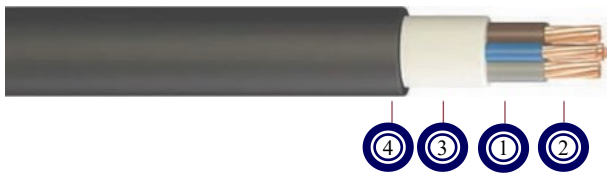
These cables which have very low dielectric loss are used in buildings , pipes , industrial zones, or distribution centers where mechanical damage is not expected and in power
Plants where sudden load changes occur. It adapts to high operating temperatures , is more durable and has a longer service life.

## TECHNICAL DATA — Cu/XLPE/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YXV / N2XY | | | | | |
| 2x1,5 | 10,14 | 145 | 12,1 | 37 | 26 |
| 2x2,5 | 10,92 | 179 | 7,41 | 49 | 36 |
| 2x4 | 11,82 | 227 | 4,61 | 64 | 49 |
| 2x6 | 12,82 | 285 | 3,08 | 79 | 63 |
| 2x10 | 15,1 | 420 | 1,83 | 106 | 86 |
| 2x16 | 17,2 | 587 | 1,15 | 137 | 115 |
| 2x25 | 20 | 847 | 0,727 | 176 | 149 |
| 2x35 | 22,2 | 1102 | 0,524 | 213 | 185 |
| 2x50 | 25,4 | 1469 | 0,387 | 252 | 225 |
| 3x1,5 | 9,8 | 143 | 12,1 | 31 | 24 |
| 3x2,5 | 10,8 | 187 | 7,41 | 40 | 32 |
| 3x4 | 12,1 | 259 | 4,61 | 52 | 42 |
| 3x6 | 13,5 | 345 | 3,08 | 64 | 53 |
| 3x10 | 16,2 | 525 | 1,83 | 86 | 74 |
| 3x16 | 18,2 | 732 | 1,15 | 112 | 98 |
| 3x25 | 21,3 | 1075 | 0,727 | 145 | 133 |
| 3x35 | 23,6 | 1409 | 0,524 | 174 | 162 |
| 3x50 | 26,9 | 1874 | 0,387 | 206 | 107 |
| 3x70 | 31 | 2629 | 0,268 | 254 | 250 |
| 3x95 | 34,8 | 3491 | 0,193 | 305 | 308 |
| 3x120 | 39,2 | 4407 | 0,153 | 348 | 359 |
| 3x150 | 42,7 | 5368 | 0,124 | 392 | 412 |
| 3x185 | 47,5 | 6687 | 0,0991 | 444 | 475 |
| 3x240 | 54,4 | 8718 | 0,0754 | 517 | 564 |

# CONSTRUCTION

## XLPE Insulated Low Voltage Power Cables




1 XLPE — INSULATION Cross-Linked

2 — CONDUCTOR Solid or Stranded Copper

3 PVC — FILLER Polyvinyl Chloride

4 PVC — OUTER SHEATH Polyvinyl Chloride

| CODE | YXV / N2XY | |
|---|---|---|
| STANDARDS | TS IEC 60502-1 | DIN VDE 0276-603 |

### TECHNICAL SPECIFICATIONS

- 250 °C — Max. Short Circuit Temperature
- 90 °C — Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Lead Free
- Min. Bending Radius 12xD
- 0.6 / 1 kV — Rated Voltage Uo/U
- Flame Propagation Test on Single Cable EN / IEC 60332-1-2

### APPLICATION AREAS

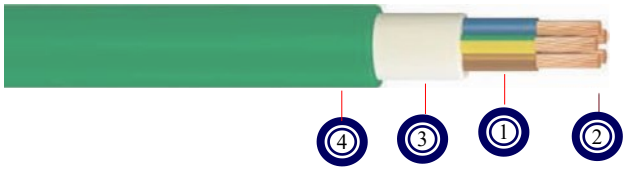
These cables which have very low dielectric loss are used in buildings , pipes , industrial zones, or distribution centers where mechanical damage is not expected and in power
Plants where sudden load changes occur. It adapts to high operating temperatures , is more durable and has a longer service life.

### TECHNICAL DATA — Cu/XLPE/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YXV / N2XY | | | | | |
| 3x16+10 | 19,8 | 858 | 1,15/1,83 | 112 | 98 |
| 3x25+16 | 23 | 1247 | 0727/1,15 | 145 | 133 |
| 3x35+16 | 25,4 | 1574 | 0,524/1,15 | 174 | 162 |
| 3x50+25 | 28,9 | 2117 | 0,387/0,727 | 206 | 197 |
| 3x70+35 | 32,8 | 2912 | 0,268/0,524 | 254 | 250 |
| 3x95+50 | 37,2 | 3909 | 0,193/0,387 | 305 | 308 |
| 3x120+70 | 42 | 5018 | 0,153/0,268 | 348 | 359 |
| 3x150+70 | 45,2 | 5905 | 0,124/0,268 | 392 | 412 |
| 3x185+95 | 52 | 7677 | 0,0991/0,193 | 444 | 475 |
| 3x240+120 | 58,4 | 9776 | 0,0754/0,153 | 517 | 564 |
| 4x1,5 | 11,1 | 186 | 12,10 | 31 | 24 |
| 4x2,5 | 12 | 236 | 7,41 | 40 | 32 |
| 4x4 | 13,1 | 316 | 4,61 | 52 | 42 |
| 4x6 | 14,6 | 422 | 3,08 | 64 | 53 |
| 4x10 | 17,4 | 639 | 1,83 | 86 | 74 |
| 4x16 | 19,7 | 906 | 1,15 | 112 | 98 |
| 4x25 | 23 | 1333 | 0,727 | 145 | 133 |
| 4x35 | 26,1 | 1799 | 0,524 | 174 | 162 |
| 4x50 | 29,9 | 2404 | 0,387 | 206 | 197 |
| 4x70 | 34,4 | 3374 | 0,268 | 254 | 250 |
| 4x95 | 38,8 | 4509 | 0,193 | 305 | 308 |
| 4x120 | 44,2 | 5748 | 0,153 | 348 | 359 |
| 4x150 | 48,2 | 7013 | 0,124 | 392 | 412 |
| 4x185 | 53,6 | 8730 | 0,0991 | 444 | 475 |
| 4x240 | 62,3 | 11535 | 0,0754 | 517 | 564 |

# CONSTRUCTION

## XLPE Insulated Low Voltage Power Cables




1 XLPE **INSULATION** Cross-Linked

2 **CONDUCTOR** Solid or Stranded Copper

3 PVC **FILLER** Polyvinyl Chloride

4 PVC **OUTER SHEATH** Polyvinyl Chloride

| CODE | YXV / N2XY | | |
|---|---|---|---|
| STANDARDS | TS IEC 60502-1 | DIN VDE 0276-603 | SI 1516.1 |

## TECHNICAL SPECIFICATIONS

- 250 °C — Max. Short Circuit Temperature
- 90 °C — Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Lead Free
- Min. Bending Radius
  12xD
- 0.6 / 1 kV — Rated Voltage Uo/U
- Flame Propagation Test on Single Cable
  EN / IEC 60332-1-2

## APPLICATION AREAS

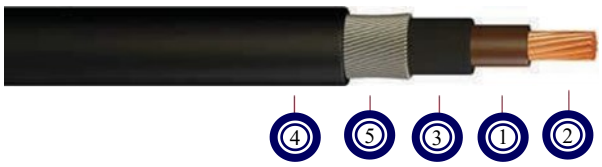
These cables which have very low dielectric loss are used in buildings , pipes , industrial zones, or distribution centers where mechanical damage is not expected and in power
Plants where sudden load changes occur. It adapts to high operating temperatures , is more durable and has a longer service life.

## TECHNICAL DATA — Cu/XLPE/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YXV / N2XY | | | | | |
| 5x1,5 | 12,3 | 230 | 12,1 | 31 | 24 |
| 5x2,5 | 13,4 | 296 | 7,41 | 40 | 32 |
| 5x4 | 14,6 | 396 | 4,61 | 52 | 42 |
| 5x6 | 15,9 | 512 | 3,08 | 64 | 53 |
| 5x10 | 18,3 | 748 | 1,83 | 86 | 74 |
| 5x16 | 21,8 | 1125 | 1,15 | 112 | 98 |

# CONSTRUCTION

## XLPE Insulated , Steel Wire Armoured Single Core Power Cables




1 XLPE INSULATION Cross-Linked

2 CONDUCTOR Solid or Stranded Copper

3 PVC FILLER Polyvinyl Chloride

4 PVC OUTER SHEATH Polyvinyl Chloride

5 GSWA ARMOUR Galvanized Round Steel Wire

| | |
|---|---|
| CODE | YXZ2V / N2XRY |
| STANDARDS | TS IEC 60502-1 |

**TECHNICAL SPECIFICATIONS**

- 250 °C Max. Short Circuit Temperature
- 90 °C Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb Lead Free
- Min. Bending Radius 15xD
- 0.6 / 1 kV Rated Voltage Uo/U
- Flame Propagation Test on Single Cable EN / IEC 60332-1-2

**APPLICATION AREAS**

It can be used under the ground as it is suitable for heavy operating conditions Resistant to mechanical stresses. It adapts to high operating temperatures , is resistant to short-term temperature spikes and has a longer service life.

## TECHNICAL DATA Cu/XLPE/SWA/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YXV / N2XY | | | | | |
| 1x50 | 18 | 707 | 0,387 | 211 | 218 |
| 1x70 | 20 | 929 | 0,268 | 257 | 275 |
| 1x95 | 21 | 1194 | 1194 | 304 | 336 |
| 1x120 | 24 | 1504 | 1504 | 341 | 388 |
| 1x150 | 26 | 1794 | 1794 | 377 | 438 |
| 1x185 | 28 | 2180 | 2180 | 418 | 501 |
| 1x240 | 31 | 2769 | 2769 | 469 | 508 |
| 1x300 | 33 | 3351 | 3351 | 514 | 654 |
| 1x400 | 37 | 4342 | 4342 | 565 | 733 |
| 1x500 | 41 | 5475 | 5475 | 623 | 825 |
| 1x630 | 45 | 6937 | 6937 | 690 | 934 |

# CONSTRUCTION

## XLPE Insulated , Steel Wire Armoured Multi-Core Power Cables


① XLPE — INSULATION: Cross-Linked Polyethylene

② CONDUCTOR: Solid or Stranded Copper

③ PVC — FILLER: Poly-vinyl Chloride

④ PVC — OUTER SHEATH: Polyvinyl Chloride

⑤ GSWA — ARMOUR: Galvanized Round Steel Wire

| | |
|---|---|
| CODE | YXZ2V / N2XRY |
| STANDARDS | TS IEC 60502-1 |

**TECHNICAL SPECIFICATIONS**

- 250 °C — Max. Short Circuit Temperature
- 90 °C — Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb — Lead Free
- Min. Bending Radius: 12xD
- 0.6 / 1 kV — Rated Voltage Uo/U
- Flame Propagation Test on Single Cable: EN / IEC 60332-1-2

**APPLICATION AREAS**

It can be used under the ground as it is suitable for heavy operating conditions Resistant to mechanical stresses. It adapts to high operating temperatures , is resistant to short-term temperature spikes and has a longer service life.

## TECHNICAL DATA — Cu/XLPE/SWA/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YXV / N2XY | | | | | |
| 2x10 | 18 | 772 | 1,83 | 87 | 75 |
| 2x16 | 20 | 980 | 1,15 | 113 | 100 |
| 2x25 | 24,5 | 1530 | 0,727 | 146 | 136 |
| 2x35 | 27 | 1835 | 0,524 | 176 | 165 |
| 2x50 | 30 | 2270 | 0,387 | 208 | 201 |
| 2x70 | 33 | 2915 | 0,268 | 256 | 255 |
| 2x95 | 38 | 4025 | 0,193 | 307 | 314 |
| 2x120 | 41 | 4785 | 0,153 | 349 | 364 |
| 2x150 | 45 | 5670 | 0,124 | 391 | 416 |
| 2x185 | 50 | 7230 | 0,0991 | 442 | 480 |
| 2x240 | 56 | 9040 | 0,0754 | 509 | 565 |

# CONSTRUCTION

## XLPE Insulated , Steel Wire Armoured Multi-Core Power Cables

④ ⑤ ③ ① ②

① XLPE **INSULATION** Cross-Linked

② **CONDUCTOR** Solid or Stranded Copper

③ PVC **FILLER** Poly-vinyl Chloride

④ PVC **OUTER SHEATH** Polyvinyl Chloride

⑤ GSWA **ARMOUR** Galvanized Round Steel Wire

| | |
|---|---|
| CODE | YXZ2V / N2XRY |
| STANDARDS | TS IEC 60502-1 |

**TECHNICAL SPECIFICATIONS**

- 250 °C — Max. Short Circuit Temperature
- 90 °C — Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb — Lead Free
- Min. Bending Radius 12xD
- 0.6 / 1 kV — Rated Voltage Uo/U
- Flame Propagation Test on Single Cable EN / IEC 60332-1-2

**APPLICATION AREAS**

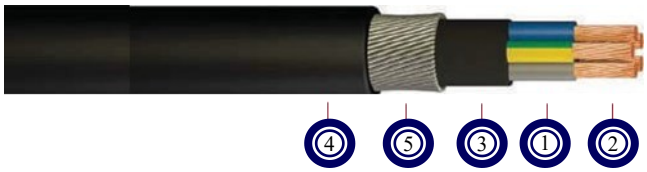
It can be used under the ground as it is suitable for heavy operating conditions Resistant to mechanical stresses. It adapts to high operating temperatures , is resistant to short-term temperature spikes and has a longer service life.

## TECHNICAL DATA — Cu/XLPE/SWA/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YXZ2V / N2XRY | | | | | |
| 3x10 | 19 | 875 | 1,83 | 87 | 75 |
| 3x16 | 21 | 1130 | 1,15 | 113 | 100 |
| 3x25 | 26 | 1790 | 0,727 | 146 | 136 |
| 3x35 | 28 | 2190 | 0,524 | 176 | 165 |
| 3x50 | 31 | 2725 | 0,387 | 208 | 201 |
| 3x70 | 37 | 3900 | 0,268 | 256 | 255 |
| 3x95 | 40 | 4900 | 0,193 | 307 | 314 |
| 3x120 | 44 | 5910 | 0,153 | 349 | 364 |
| 3x150 | 49 | 7440 | 0,124 | 391 | 416 |
| 3x185 | 54 | 8970 | 0,0991 | 442 | 480 |
| 3x240 | 60 | 11200 | 0,0754 | 509 | 565 |
| 3x25+16 | 29 | 1985 | 0,727/1,15 | 146 | 136 |
| 3x35+16 | 30 | 2353 | 0,524/1,15 | 176 | 165 |
| 3x50+25 | 34 | 3000 | 0,387/0,727 | 208 | 201 |
| 3x70+35 | 39 | 4150 | 0,268/0,524 | 256 | 255 |
| 3x95+50 | 43 | 5260 | 0,193/0,387 | 307 | 314 |
| 3x120+70 | 48 | 6490 | 0,153/0,268 | 349 | 364 |
| 3x150+70 | 53 | 8070 | 0,124/0,268 | 391 | 416 |
| 3x185+95 | 57 | 9620 | 0,0991/0,193 | 442 | 480 |
| 3x240+120 | 63 | 12210 | 0,0754/0,153 | 509 | 565 |

# CONSTRUCTION

## XLPE Insulated , Steel Wire Armoured Multi-Core Power Cables




1 XLPE — INSULATION: Cross-Linked

2 — CONDUCTOR: Solid or Stranded Copper

3 PVC — FILLER: Poly-vinyl Chloride

4 PVC — OUTER SHEATH: Polyvinyl Chloride

5 GSWA — ARMOUR: Galvanized Round Steel Wire

| | |
|---|---|
| CODE | YXZ2V / N2XRY |
| STANDARDS | TS IEC 60502-1 |

**TECHNICAL SPECIFICATIONS**

- 250 °C — Max. Short Circuit Temperature
- 90 °C — Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb — Lead Free
- Min. Bending Radius: 12xD
- 0.6 / 1 kV — Rated Voltage Uo/U
- Flame Propagation Test on Single Cable: EN / IEC 60332-1-2

**APPLICATION AREAS**

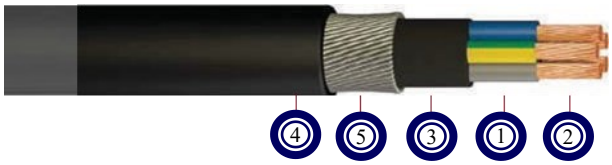
It can be used under the ground as it is suitable for heavy operating conditions Resistant to mechanical stresses. It adapts to high operating temperatures , is resistant to short-term temperature spikes and has a longer service life.

**TECHNICAL DATA** Cu/XLPE/SWA/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YXZ2V / N2XRY | | | | | |
| 4x4 | 16 | 536 | 4,61 | 52 | 43 |
| 4x6 | 18 | 784 | 3,08 | 65 | 54 |
| 4x10 | 20 | 1015 | 1,83 | 87 | 75 |
| 4x16 | 23 | 1470 | 1,15 | 113 | 100 |
| 4x25 | 28 | 2125 | 0,727 | 146 | 165 |
| 4x35 | 31 | 2600 | 0,524 | 176 | 136 |
| 4x50 | 34 | 3260 | 0,387 | 208 | 201 |
| 4x70 | 40 | 4680 | 0,268 | 256 | 255 |
| 4x95 | 44 | 5920 | 0,193 | 307 | 314 |
| 4x120 | 49 | 7610 | 0,153 | 349 | 364 |
| 4x150 | 54 | 9180 | 0,124 | 391 | 416 |
| 4x185 | 59 | 11000 | 0,0991 | 442 | 480 |
| 4x240 | 65 | 13700 | 0,0754 | 509 | 565 |

# CONSTRUCTION

## XLPE Insulated , Steel Wire Armoured Multi-Core Power Cables




1 XLPE INSULATION Cross-Linked

2 CONDUCTOR Solid or Stranded Copper

3 PVC FILLER Poly-vinyl Chloride

4 PVC OUTER SHEATH Polyvinyl Chloride

5 GSWA ARMOUR Galvanized Round Steel Wire

| | |
|---|---|
| CODE | YXZ2V / N2XRY |
| STANDARDS | TS IEC 60502-1 |

**TECHNICAL SPECIFICATIONS**

- 250 °C Max. Short Circuit Temperature
- 90 °C Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb Lead Free
- Min. Bending Radius 12xD
- 0.6 / 1 kV Rated Voltage Uo/U
- Flame Propagation Test on Single Cable EN / IEC 60332-1-2

**APPLICATION AREAS**

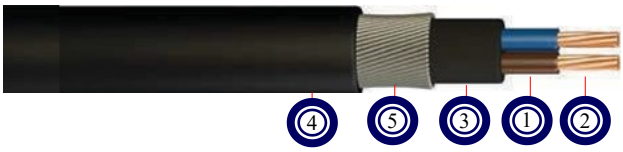
It can be used under the ground as it is suitable for heavy operating conditions Resistant to mechanical stresses. It adapts to high operating temperatures , is resistant to short-term temperature spikes and has a longer service life.

## TECHNICAL DATA — Cu/XLPE/SWA/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YXZ2V / N2XRY | | | | | |
| 5x6 | 19 | 880 | 3,08 | 65 | 51 |
| 5x10 | 22 | 1170 | 1,83 | 87 | 75 |
| 5x16 | 25 | 1700 | 1,15 | 113 | 100 |

# CONSTRUCTION

## XLPE Insulated , Steel Wire Armoured Multi-Core Power Cables




1 XLPE — INSULATION: Cross-Linked Polyethylene

2 — CONDUCTOR: Solid or Stranded Copper

3 PVC — FILLER: Poly-vinyl Chloride

4 PVC — OUTER SHEATH: Polyvinyl Chloride

5 GSWA — ARMOUR: Galvanized Round Steel Wire

| CODE | YVZ2V / NYRY | |
|---|---|---|
| STANDARDS | TS IEC 60502-1 | DIN VDE 0276-603 |

**TECHNICAL SPECIFICATIONS**

- 160 °C — Max. Short Circuit Temperature
- 70 °C — Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb — Lead Free
- Min. Bending Radius 12xD
- 0.6 / 1 kV — Rated Voltage Uo/U
- Flame Propagation Test on Single Cable EN / IEC 60332-1-2

**APPLICATION AREAS**

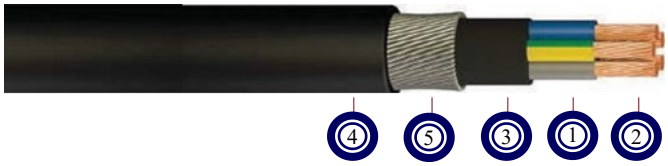
It can be used under the ground since it is resistant to mechanical stress and is suitable for heavy operating conditions.

## TECHNICAL DATA — Cu/PVC/SWA/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YXZ2V / NYRY | | | | | |
| 2x10 | 20,5 | 900 | 1,83 | 90 | 66 |
| 2x16 | 22,5 | 1100 | 1,15 | 116 | 89 |
| 2x25 | 26 | 1650 | 0,727 | 150 | 118 |
| 2x35 | 28 | 1950 | 0,524 | 181 | 145 |
| 2x50 | 31,5 | 2500 | 0,387 | 215 | 176 |
| 2x70 | 35,5 | 3400 | 0,268 | 264 | 224 |
| 2x95 | 40,5 | 4360 | 0,193 | 317 | 271 |
| 3x10 | 21,5 | 1050 | 1,83 | 75 | 60 |
| 3x16 | 23,5 | 1300 | 1,15 | 98 | 80 |
| 3x25 | 27,5 | 1950 | 0,727 | 128 | 106 |
| 3x35 | 29,5 | 2350 | 0,524 | 157 | 131 |
| 3x50 | 33,5 | 3050 | 0,387 | 185 | 159 |
| 3x70 | 38 | 4200 | 0,268 | 228 | 202 |
| 3x95 | 43 | 5350 | 0,193 | 275 | 244 |
| 3x120 | 46,5 | 6400 | 0,153 | 313 | 282 |
| 3x150 | 52 | 8150 | 0,124 | 353 | 324 |
| 3x185 | 57 | 9750 | 0,0991 | 399 | 371 |
| 3x240 | 67 | 12250 | 0,0754 | 464 | 436 |

# CONSTRUCTION

## XLPE Insulated , Steel Wire Armoured Multi-Core Power Cables




1 XLPE — INSULATION: Cross-Linked Polyethylene

2 — CONDUCTOR: Solid or Stranded Copper

3 PVC — FILLER: Poly-vinyl Chloride

4 PVC — OUTER SHEATH: Polyvinyl Chloride

5 GSWA — ARMOUR: Galvanized Round Steel Wire

| CODE | YVZ2V / NYRY | |
|---|---|---|
| STANDARDS | TS IEC 60502-1 | DIN VDE 0276-603 |

**TECHNICAL SPECIFICATIONS**

- 160 °C — Max. Short Circuit Temperature
- 70 °C — Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb — Lead Free
- Min. Bending Radius 12xD
- 0.6 / 1 kV — Rated Voltage Uo/U
- Flame Propagation Test on Single Cable EN / IEC 60332-1-2

**APPLICATION AREAS**

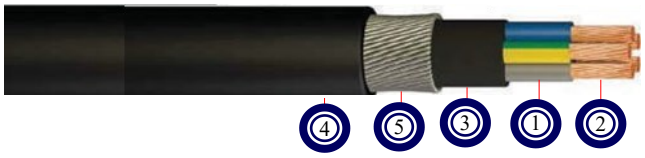
It can be used under the ground since it is resistant to mechanical stress and is suitable for heavy operating conditions.

## TECHNICAL DATA — Cu/PVC/SWA/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YXZ2V / NYRY | | | | | |
| 3x10+6 | 23 | 1280 | 1,83/3,08 | 75 | 60 |
| 3x16+10 | 25,5 | 1600 | 1,15/1,83 | 98 | 80 |
| 3x25+16 | 28,5 | 2150 | 0,727/1,15 | 128 | 106 |
| 3x35+16 | 30,5 | 2550 | 0,524/1,15 | 157 | 131 |
| 3x50+25 | 35,5 | 3600 | 0,387/0,727 | 185 | 159 |
| 3x70+35 | 39,5 | 4650 | 0,268/0,524 | 228 | 202 |
| 3x95+50 | 44,5 | 5950 | 0,193/0,387 | 275 | 244 |
| 3x120+70 | 50,5 | 7700 | 0,153/0,268 | 313 | 282 |
| 3x150+70 | 53,5 | 8900 | 0,124/0,268 | 353 | 324 |
| 3x185+95 | 59 | 10800 | 0,0991/0,193 | 399 | 371 |
| 3x240+120 | 66,5 | 13500 | 0,0754/0,153 | 464 | 436 |
| 4x6 | 20 | 900 | 3,08 | 56 | 43 |
| 4x10 | 23 | 1200 | 1,83 | 75 | 60 |
| 4x16 | 26 | 1700 | 1,15 | 98 | 80 |
| 4x25 | 29,5 | 2300 | 0,727 | 128 | 106 |
| 4x35 | 32,5 | 2870 | 0,524 | 157 | 131 |
| 4x50 | 37,5 | 4000 | 0,387 | 185 | 159 |
| 4x70 | 41,5 | 5150 | 0,268 | 228 | 202 |
| 4x95 | 48 | 7050 | 0,193 | 275 | 244 |
| 4x120 | 52,5 | 8450 | 0,153 | 313 | 282 |
| 4x150 | 57 | 10050 | 0,124 | 353 | 324 |
| 4x185 | 63 | 12150 | 0,0991 | 399 | 371 |
| 4x240 | 70,5 | 15300 | 0,0754 | 464 | 436 |

# CONSTRUCTION

## XLPE Insulated , Steel Wire Armoured Multi-Core Power Cables




1 XLPE — INSULATION: Cross-Linked Polyethylene

2 — CONDUCTOR: Solid or Stranded Copper

3 PVC — FILLER: Poly-vinyl Chloride

4 PVC — OUTER SHEATH: Polyvinyl Chloride

5 GSWA — ARMOUR: Galvanized Round Steel Wire

| CODE | YVZ2V / NYRY | |
|---|---|---|
| STANDARDS | TS IEC 60502-1 | DIN VDE 0276-603 |

### TECHNICAL SPECIFICATIONS

- 160 °C — Max. Short Circuit Temperature
- 70 °C — Max. Operating Temperature
- Test Voltage (AC 3,5 kV)
- Pb — Lead Free
- Min. Bending Radius: 12xD
- 0.6 / 1 kV — Rated Voltage Uo/U
- Flame Propagation Test on Single Cable: EN / IEC 60332-1-2

### APPLICATION AREAS

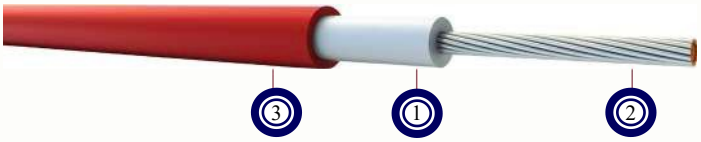
It can be used under the ground since it is resistant to mechanical stress and is suitable for heavy operating conditions.

## TECHNICAL DATA — Cu/PVC/SWA/PVC

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| YXZ2V / NYRY | | | | | |
| 5x6 | 20,8 | 1030 | 3,08 | 59 | 43 |
| 5x10 | 24,8 | 1551 | 1,83 | 79 | 59 |
| 5x16 | 27,4 | 1992 | 1,15 | 102 | 79 |

# CONSTRUCTION

## Halogen-Free Single Core Cables for use in Photovoltaic Systems




1 TPE INSULATION Cross-Linked Halogen Free

2 CONDUCTOR Solid or Stranded Copper

3 TPE Outer Sheath Cross-Linked Halogen Free

| CODE | H1Z2Z2-K / 62930 IEC 131 SOLAR CABLES | |
|---|---|---|
| STANDARDS | TS EN 50618 | IEC 62930 |

### TECHNICAL SPECIFICATIONS

- 250 °C Max. Short Circuit Temperature
- 120 °C Max. Operating Temperature
  For 20.000 h
- Test Voltage (AC 6,5 kV)
- Min. Bending Radius
  5xD
- 1,5kV DC 1,0/1,0 kV AC Rated Voltage Uo/U
- Flame Propagation Test on Single Cable
  EN 60332-1
- Halogen Free (EN / IEC 60754-1 / EN 60754-2)
- Low Smoke Density (EN / IEC 61034-2)

### APPLICATION AREAS

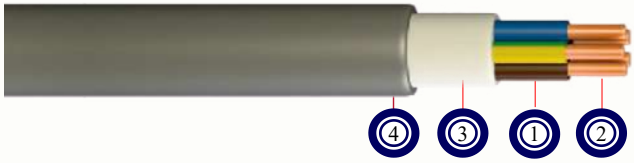
These cables are designed for conntecting photovoltaic system components İnside and outside of buildings and equipment with high mechanical requirements and extreme weather conditions. Especially designed to Connect solar panels for permanent junction boxes and inverters.
Good abrasion , ozone resistant , flameretardant halogen-free properties.

### TECHNICAL DATA — Cu-Sn/TPE/TPE

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | | |
|---|---|---|---|---|---|---|
| | | | | Free Single Cable in Air (A) | Single Cable of Surfaces (A) | Two Cables Adjacent of Surfaces(A) |
| H1Z2Z2-K / 62930 IEC 131 | | | | | | |
| 1,5 | 4,5 | 36 | 13,7 | 30 | 29 | 24 |
| 2,5 | 5 | 47 | 8,21 | 41 | 39 | 33 |
| 4 | 5,5 | 63 | 5,09 | 55 | 52 | 44 |
| 6 | 6,2 | 85 | 3,39 | 70 | 67 | 57 |
| 10 | 7 | 126 | 1,95 | 98 | 93 | 79 |
| 16 | 8,4 | 191 | 1,24 | 132 | 125 | 107 |
| 25 | 10,2 | 292 | 0,795 | 176 | 167 | 142 |
| 35 | 11,3 | 382 | 0,565 | 218 | 207 | 176 |
| 50 | 13,1 | 543 | 0,393 | 276 | 262 | 221 |
| 70 | 15,1 | 741 | 0,277 | 347 | 330 | 278 |
| 95 | 17 | 979 | 0,210 | 416 | 395 | 333 |
| 120 | 19 | 1222 | 0,164 | 488 | 464 | 390 |
| 150 | 20,6 | 1475 | 0,132 | 566 | 538 | 453 |
| 185 | 23,4 | 1886 | 0,108 | 644 | 612 | 515 |
| 240 | 27,8 | 2400 | 0,0817 | 775 | 736 | 620 |
| 300* | 30,2 | 2926 | 0,0654 | 913 | 866 | 693 |
| 400* | 33 | 3813 | 0,0495 | 1098 | 1041 | 825 |

# CONSTRUCTION

## Halogen Free ,Flame Retardant , XLPE Insulated , Multi-Core Cables




1 XLPE — INSULATION: Cross-Linked Polyethylene

2 — CONDUCTOR: Solid or Stranded Copper

3 HFFR — FILLER: Halogen Free Flame Retardant

4 HFFR — OUTER SHEATH: Halogen Free Flame Retardant

| | |
|---|---|
| CODE | NHXMH-O / NHXMH-J (052XZ1-U / 052XZ1-R) |
| STANDARDS | DIN VDE 0250-214 TSE K 238 |

### TECHNICAL SPECIFICATIONS

- 250 °C — Max. Short Circuit Temperature
- 90 °C — Max. Operating Temperature
- Test Voltage (AC 2 Kv)
- Low Smoke Density (EN 61034-2)
- Min. Bending Radius 12xD
- Pb — Lead Free
- 300/500V — Rated Voltage Uo/U
- Flame Retardant Test of Bunched Cable EN / IEC 60332-3-24 Cat. C
- Halogen Free (EN 60754-1 / EN 60754-2)

### APPLICATION AREAS

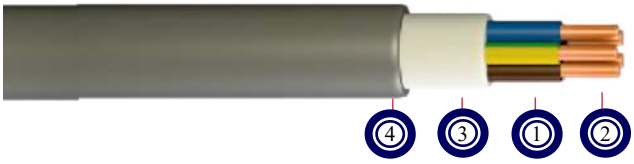
It's used in refineries , hotels , shcools , tunnels , high buildings , Hospitals , data processing centers and people-intensive business centers And fire-sensitive regions.

## TECHNICAL DATA — Cu/XLPE/HFFR

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| NHXMH-O / NHXMH-J | | | | |
| 2x1,5 | 8,3 | 101 | 12,1 | 22 |
| 2x2,5 | 9,1 | 130 | 7,41 | 30 |
| 2x4 | 10,4 | 182 | 4,61 | 40 |
| 2x6 | 11,4 | 235 | 3,08 | 51 |
| 2x10 | 14,2 | 379 | 1,83 | 70 |
| 2x16 | 16,8 | 548 | 1,15 | 98 |
| 3x1,5 | 8,7 | 118 | 12,1 | 22 |
| 3x2,5 | 9,6 | 157 | 7,41 | 30 |
| 3x4 | 11 | 224 | 4,61 | 40 |
| 3x6 | 12,4 | 303 | 3,08 | 51 |
| 3x10 | 15 | 475 | 1,83 | 70 |
| 3x16 | 18,2 | 711 | 1,15 | 98 |
| 4x1,5 | 9,3 | 140 | 12,1 | 18 |
| 4x2,5 | 10,3 | 189 | 7,41 | 25 |
| 4x4 | 12,3 | 286 | 4,61 | 34 |
| 4x6 | 13,9 | 389 | 3,08 | 43 |
| 4x10 | 16,2 | 589 | 1,83 | 60 |
| 4x16 | 19,8 | 888 | 1,15 | 80 |
| 4x25 | 24 | 1359 | 0,727 | 127 |
| 4x35 | 26,7 | 1794 | 0,524 | 158 |

# CONSTRUCTION

## Halogen Free , Flame Retardant , XLPE Insulated , Multi-Core Cables




1 XLPE **INSULATION** Cross-Linked

2 **CONDUCTOR** Solid or Stranded Copper

3 HFFR **FILLER** Halogen Free Flame Retardant

4 HFFR **OUTER SHEATH** Halogen Free Flame Retardant

| | | |
|---|---|---|
| CODE | NHXMH-O / NHXMH-J (052XZ1-U / 052XZ1-R) | |
| STANDARDS | DIN VDE 0250-214 | TSE K 238 |

**TECHNICAL SPECIFICATIONS**

- 250 °C Max. Short Circuit Temperature
- 90 °C Max. Operating Temperature
- Test Voltage (AC 2 Kv)
- Low Smoke Density (EN 61034-2)
- Min. Bending Radius 12xD
- Pb Lead Free
- 300/500V Rated Voltage Uo/U
- Flame Retardant Test of Bunched Cable EN / IEC 60332-3-24 Cat. C
- Halogen Free (EN 60754-1 / EN 60754-2)

**APPLICATION AREAS**

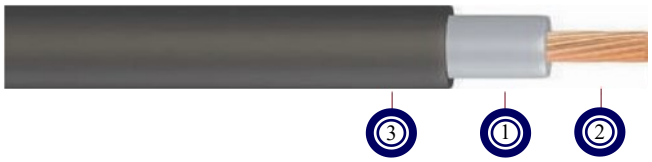
It's used in refineries , hotels , shcools , tunnels , high buildings , Hospitals , data processing centers and people-intensive business centers And fire-sensitive regions.

## TECHNICAL DATA — Cu/XLPE/HFFR

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity In the air (A) |
|---|---|---|---|---|
| NHXMH-O / NHXMH-J | | | | |
| 5x1,5 | 10 | 165 | 12,1 | 18,5 |
| 5x2,5 | 11,1 | 224 | 7,41 | 25 |
| 5x4 | 13,6 | 353 | 4,61 | 34 |
| 5x6 | 15,0 | 467 | 3,08 | 43 |
| 5x10 | 17,6 | 714 | 1,83 | 60 |
| 5x16 | 21,9 | 1098 | 1,15 | 80 |
| 5x25 | 26,1 | 1652 | 0,727 | 127 |
| 7x1,5 | 10,7 | 201 | 12,1 | 15,5 |
| 7x2,5 | 12,3 | 289 | 7,41 | 21 |

# CONSTRUCTION

## Halogen Free,Flame Retardant, XLPE Insulated,Single Core Cables




① XLPE **INSULATION** Cross-Linked Polyethylene

② **CONDUCTOR** Solid or Stranded Copper

③ HFFR **OUTER SHEATH** Halogen Free Flame Retardant

**TECHNICAL SPECIFICATIONS**

| | | | |
|---|---|---|---|
| CODE | N2XH / YXZ1 | | |
| STANDARDS | DIN VDE 0276-604 | TS HD 604 S1 | TS IEC C60502-1 |

- 250 °C Max. Short Circuit Temperature
- 90 °C Max. Operating Temperature
- Test Voltage (AC 3,5 Kv)
- Low Smoke Density (EN 61034-2)
- Min. Bending Radius 18xD
- Pb Lead Free
- 0,6 / 1 kV Rated Voltage Uo/U
- Flame Retardant Test of Bunched Cable EN / IEC 60332-3-24 Cat. C
- Halogen Free (EN 60754-1 / EN 60754-2)

**APPLICATION AREAS**

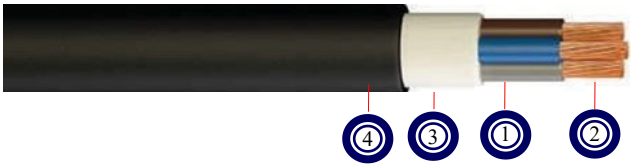
It's used in refineries , hotels , shcools , tunnels , high buildings , Hospitals , data processing centers and people-intensive business centers And fire-sensitive regions.

## TECHNICAL DATA Cu/XLPE/HFFR

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | | | |
|---|---|---|---|---|---|---|---|
| | | | | In the conduit (A) | | In the air (A) | |
| N2XH / YXZ1 | | | | ooo | oo | ooo | oo |
| 1x4 | 6,7 | 77 | 4,61 | 66 | 55 | 56 | 44 |
| 1x6 | 7,2 | 98 | 3,08 | 82 | 68 | 71 | 57 |
| 1x10 | 8,1 | 142 | 1,83 | 109 | 90 | 96 | 77 |
| 1x16 | 9 | 200 | 1,15 | 139 | 115 | 128 | 102 |
| 1x25 | 10,4 | 294 | 0,727 | 179 | 149 | 173 | 139 |
| 1x35 | 11,5 | 389 | 0,524 | 213 | 178 | 212 | 170 |
| 1x50 | 13 | 516 | 0,387 | 251 | 211 | 258 | 208 |
| 1x70 | 14,7 | 720 | 0,268 | 307 | 259 | 328 | 265 |
| 1x95 | 16,4 | 962 | 0,193 | 366 | 310 | 404 | 329 |
| 1x120 | 18,3 | 1205 | 0,153 | 416 | 352 | 471 | 381 |
| 1x150 | 20,2 | 1488 | 0,124 | 465 | 396 | 541 | 438 |
| 1x185 | 22,4 | 1852 | 0,0991 | 526 | 449 | 626 | 507 |
| 1x240 | 25,6 | 2409 | 0,0754 | 610 | 521 | 749 | 606 |
| 1x300 | 28,9 | 3072 | 0,0601 | 689 | 587 | 864 | 697 |
| 1x400 | 34 | 3874 | 0,0470 | 788 | 669 | 1018 | 816 |
| 1x500 | 39,2 | 5023 | 0,0366 | 889 | 748 | 1173 | 933 |

# CONSTRUCTION

## Halogen Free , Flame Retardant XLPE Insulated , Multi-Core Cables




1 XLPE — INSULATION
Cross-Linked
Polyethylene

2 — CONDUCTOR
Solid or
Stranded Copper

3 HFFR — FILLER
Halogen Free
Flame
Retardant

4 HFFR — OUTER SHEATH
Halogen Free
Flame
Retardant

**TECHNICAL SPECIFICATIONS**

| | | | |
|---|---|---|---|
| CODE | N2XH / YXZ1 | | |
| STANDARDS | DIN VDE 0276-604 | TS HD 604 S1 | TS IEC C60502-1 |

250 °C — Max. Short Circuit Temperature

90 °C — Max. Operating Temperature

Test Voltage (AC 3,5 Kv)

Low Smoke Density (EN 61034-2)

Min. Bending Radius
12xD

Pb — Lead Free

0,6 / 1 kV — Rated Voltage Uo/U

Flame Retardant Test of Bunched Cable
EN / IEC 60332-3-24 Cat. C

Halogen Free (EN / IEC 60754-1 / EN / IEC 60754-2)

**APPLICATION AREAS**

It's used in refineries , hotels , shcools , tunnels , high buildings ,
Hospitals , data processing centers and people-intensive business centers
And fire-sensitive regions.

## TECHNICAL DATA — Cu/XLPE/HFFR

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| N2XH / YXZ1 | | | | | |
| 2x1,5 | 9,1 | 117 | 12,1 | 30 | 24 |
| 2x2,5 | 9,9 | 147 | 7,41 | 40 | 32 |
| 2x4 | 10,4 | 179 | 4,61 | 52 | 42 |
| 2x6 | 11,9 | 248 | 3,08 | 64 | 53 |
| 2x10 | 14,3 | 358 | 1,83 | 86 | 73 |
| 2x16 | 16,4 | 532 | 1,15 | 111 | 96 |
| 2x25 | 19,2 | 776 | 0,727 | 143 | 130 |
| 2x35 | 21,6 | 1029 | 0,524 | 173 | 160 |
| 2x50 | 25 | 1388 | 0,387 | 205 | 195 |

# CONSTRUCTION

## Halogen Free , Flame Retardant XLPE Insulated , Multi-Core Cables


1 XLPE — INSULATION
Cross-Linked
Polyethylene

2 — CONDUCTOR
Solid or
Stranded Copper

3 HFFR — FILLER
Halogen Free
Flame
Retardant

4 HFFR — OUTER SHEATH
Halogen Free
Flame
Retardant

**TECHNICAL SPECIFICATIONS**

| | | | |
|---|---|---|---|
| CODE | N2XH / YXZ1 | | |
| STANDARDS | DIN VDE 0276-604 | TS HD 604 S1 | TS IEC C60502-1 |

250 °C — Max. Short Circuit Temperature

90 °C — Max. Operating Temperature

Test Voltage (AC 3,5 Kv)

Low Smoke Density (EN 61034-2)

Min. Bending Radius
12xD

Pb — Lead Free

0,6 / 1 kV — Rated Voltage Uo/U

Flame Retardant Test of Bunched Cable
EN / IEC 60332-3-24 Cat. C

Halogen Free (EN / IEC 60754-1 / EN / IEC 60754-2)

**APPLICATION AREAS**

It's used in refineries , hotels , shcools , tunnels , high buildings ,
Hospitals , data processing centers and people-intensive business centers
And fire-sensitive regions.

## TECHNICAL DATA — Cu/XLPE/HFFR

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| N2XH / YXZ1 | | | | | |
| 3x1,5 | 9,6 | 135 | 12,1 | 30 | 24 |
| 3x2,5 | 10,5 | 175 | 7,41 | 40 | 32 |
| 3x4 | 11,4 | 232 | 4,61 | 52 | 42 |
| 3x6 | 12,5 | 303 | 3,08 | 64 | 53 |
| 3x10 | 15,7 | 490 | 1,83 | 86 | 73 |
| 3x16 | 17,3 | 673 | 1,15 | 111 | 96 |
| 3x25 | 20,5 | 1005 | 0,727 | 143 | 130 |
| 3x35 | 22,8 | 1328 | 0,524 | 173 | 160 |
| 3x50 | 26,5 | 1799 | 0,387 | 205 | 195 |
| 3x70 | 30,3 | 2510 | 0,268 | 252 | 247 |
| 3x95 | 34,3 | 3366 | 0,193 | 303 | 305 |
| 3x120 | 38,8 | 4263 | 0,153 | 346 | 355 |
| 3x150 | 42,2 | 5190 | 0,124 | 390 | 407 |
| 3x185 | 46,7 | 6440 | 0,0991 | 441 | 469 |
| 3x240 | 53,5 | 8397 | 0,0754 | 511 | 551 |

# CONSTRUCTION

## Halogen Free , Flame Retardant XLPE Insulated , Multi-Core Cables


1 XLPE — INSULATION
Cross-Linked Polyethylene

2 — CONDUCTOR
Solid or Stranded Copper

3 HFFR — FILLER
Halogen Free Flame Retardant

4 HFFR — OUTER SHEATH
Halogen Free Flame Retardant

**TECHNICAL SPECIFICATIONS**

| | | | |
|---|---|---|---|
| CODE | N2XH / YXZ1 | | |
| STANDARDS | DIN VDE 0276-604 | TS HD 604 S1 | TS IEC C60502-1 |

250 °C — Max. Short Circuit Temperature

90 °C — Max. Operating Temperature

Test Voltage (AC 3,5 Kv)

Low Smoke Density (EN 61034-2)

Min. Bending Radius
12xD

Pb — Lead Free

0,6 / 1 kV — Rated Voltage Uo/U

Flame Retardant Test of Bunched Cable
EN / IEC 60332-3-24 Cat. C

Halogen Free (EN / IEC 60754-1 / EN / IEC 60754-2)

**APPLICATION AREAS**

It's used in refineries , hotels , shcools , tunnels , high buildings , Hospitals , data processing centers and people-intensive business centers And fire-sensitive regions.

## TECHNICAL DATA — Cu/XLPE/HFFR

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| N2XH / YXZ1 | | | | | |
| 3x16+10 | 19,7 | 840 | 1,15/1,83 | 111 | 96 |
| 3x25+16 | 22,9 | 1230 | 0,727/1,15 | 143 | 130 |
| 3x35+16 | 25,1 | 1542 | 0,524/1,15 | 173 | 160 |
| 3x50+25 | 28,7 | 2086 | 0,387/0,727 | 205 | 195 |
| 3x70+35 | 32,5 | 2874 | 0,268/0,524 | 252 | 247 |
| 3x95+50 | 36,8 | 3850 | 0,193/0,387 | 303 | 305 |
| 3x120+70 | 41,5 | 4932 | 0,153/0,268 | 346 | 355 |
| 3x150+70 | 44,8 | 5813 | 0,124/0,268 | 390 | 407 |
| 3x185+95 | 48,8 | 7212 | 0,0991/0,193 | 441 | 469 |
| 3x240+120 | 56,9 | 9526 | 0,0754/0,153 | 511 | 551 |
| 4x1,5 | 10,4 | 162 | 12,1 | 30 | 24 |
| 4x2,5 | 11,3 | 210 | 7,41 | 40 | 32 |
| 4x4 | 12,6 | 292 | 4,61 | 52 | 42 |
| 4x6 | 13,9 | 386 | 3,08 | 64 | 53 |
| 4x10 | 16,8 | 598 | 1,83 | 86 | 73 |
| 4x16 | 19,2 | 860 | 1,15 | 111 | 96 |
| 4x25 | 22,5 | 1275 | 0,727 | 143 | 130 |

# CONSTRUCTION

## Halogen Free , Flame Retardant XLPE Insulated , Multi-Core Cables


1 XLPE — INSULATION
Cross-Linked
Polyethylene

2 — CONDUCTOR
Solid or
Stranded Copper

3 HFFR — FILLER
Halogen Free
Flame
Retardant

4 HFFR — OUTER SHEATH
Halogen Free
Flame
Retardant

**TECHNICAL SPECIFICATIONS**

| | | | |
|---|---|---|---|
| CODE | N2XH / YXZ1 | | |
| STANDARDS | DIN VDE 0276-604 | TS HD 604 S1 | TS IEC C60502-1 |

250 °C — Max. Short Circuit Temperature

90 °C — Max. Operating Temperature

Test Voltage (AC 3,5 Kv)

Low Smoke Density (EN 61034-2)

Min. Bending Radius
12xD

Pb — Lead Free

0,6 / 1 kV — Rated Voltage Uo/U

Flame Retardant Test of Bunched Cable
EN / IEC 60332-3-24 Cat. C

Halogen Free (EN / IEC 60754-1 / EN / IEC 60754-2)

**APPLICATION AREAS**

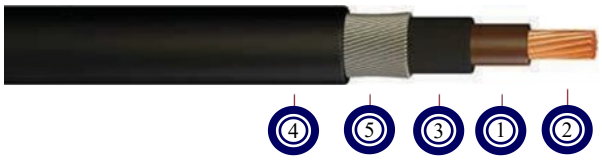
It's used in refineries , hotels , shcools , tunnels , high buildings ,
Hospitals , data processing centers and people-intensive business centers
And fire-sensitive regions.

## TECHNICAL DATA — Cu/XLPE/HFFR

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| N2XH / YXZ1 | | | | | |
| 4x35 | 25,5 | 1719 | 0,524 | 173 | 160 |
| 4x50 | 29,1 | 2292 | 0,387 | 205 | 195 |
| 4x70 | 33,6 | 3233 | 0,268 | 252 | 247 |
| 4x95 | 37,8 | 4321 | 0,193 | 303 | 305 |
| 4x120 | 42,8 | 5473 | 0,153 | 346 | 355 |
| 4x150 | 46,8 | 6699 | 0,124 | 390 | 407 |
| 4x185 | 52 | 8341 | 0,0991 | 441 | 469 |
| 4x240 | 60,9 | 11067 | 0,0754 | 511 | 551 |
| 5x1,5 | 10,9 | 183 | 12,1 | 30 | 24 |
| 5x2,5 | 12,2 | 250 | 7,41 | 40 | 32 |
| 5x4 | 13,6 | 349 | 4,61 | 52 | 42 |
| 5x6 | 14,9 | 460 | 3,08 | 64 | 53 |
| 5x10 | 18,2 | 722 | 1,83 | 86 | 73 |
| 5x16 | 21 | 1052 | 1,15 | 111 | 96 |
| 5x25 | 25 | 1585 | 0,727 | 143 | 130 |
| 5x35 | 28,1 | 2121 | 0,524 | 173 | 160 |

# CONSTRUCTION

## Halogen Free , Flame Retardant , XLPE Insulated , Multi-Core Armoured Cables




1 XLPE — INSULATION: Cross-Linked Polyethylene

2 — CONDUCTOR: Solid or Stranded Copper

3 HFFR — FILLER: Halogen Free Flame Retardant

4 HFFR — OUTER SHEATH: Halogen Free Flame Retardant

5 GSWA — ARMOUR: Galvanized Round Steel Wire

**TECHNICAL SPECIFICATIONS**

| | | | | |
|---|---|---|---|---|
| CODE | N2XRH / YXZ2Z1 | | | |
| STANDARDS | DIN VDE 0276-604 | TS HD 604 S1 | TS IEC C60502-1 | TSE K 339 |

- 250 °C — Max. Short Circuit Temperature
- 90 °C — Max. Operating Temperature
- Test Voltage (AC 3,5 Kv)
- Low Smoke Density (EN 61034-2)
- Min. Bending Radius 15xD
- Pb — Lead Free
- 0,6 / 1 kV — Rated Voltage Uo/U
- Flame Retardant Test of Bunched Cable EN / IEC 60332-3-24 Cat. C
- Halogen Free (EN / IEC 60754-1 / EN / IEC 60754-2)

**APPLICATION AREAS**

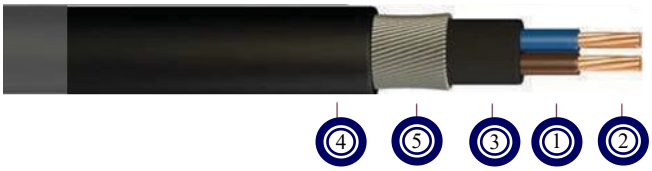
It's used in refineries , hotels , shcools , tunnels , high buildings , Hospitals , data processing centers and people-intensive business centers And fire-sensitive regions.

## TECHNICAL DATA — Cu/XLPE/SWA/HFFR

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | | | |
|---|---|---|---|---|---|---|---|
| | | | | In the conduit (A) | | In the air (A) | |
| N2XRH / YXZ2Z1 | | | | ⚀⚀⚀ | ⚁ | ⚀⚀⚀ | ⚁ |
| 1x4 | 6,7 | 77 | 4,61 | 66 | 55 | 56 | 44 |
| 1x6 | 7,2 | 98 | 3,08 | 82 | 68 | 71 | 57 |
| 1x10 | 8,1 | 142 | 1,83 | 109 | 90 | 96 | 77 |
| 1x16 | 9 | 200 | 1,15 | 139 | 115 | 128 | 102 |
| 1x25 | 10,4 | 294 | 0,727 | 179 | 149 | 173 | 139 |
| 1x35 | 11,5 | 389 | 0,524 | 213 | 178 | 212 | 170 |
| 1x50 | 13 | 516 | 0,387 | 251 | 211 | 258 | 208 |
| 1x70 | 14,7 | 720 | 0,268 | 307 | 259 | 328 | 265 |
| 1x95 | 16,4 | 962 | 0,193 | 366 | 310 | 404 | 329 |
| 1x120 | 18,3 | 1205 | 0,153 | 416 | 352 | 471 | 381 |
| 1x150 | 20,2 | 1488 | 0,124 | 465 | 396 | 541 | 438 |
| 1x185 | 22,4 | 1852 | 0,0991 | 526 | 449 | 626 | 507 |
| 1x240 | 25,6 | 2409 | 0,0754 | 610 | 521 | 749 | 606 |
| 1x300 | 28,9 | 3072 | 0,0601 | 689 | 587 | 864 | 697 |
| 1x400 | 34 | 3874 | 0,0470 | 788 | 669 | 1018 | 816 |
| 1x500 | 39,2 | 5023 | 0,0366 | 889 | 748 | 1173 | 933 |

# CONSTRUCTION

## Halogen Free , Flame Retardant , XLPE Insulated , Multi-Core Armoured Cables




1 XLPE — INSULATION Cross-Linked Polyethylene

2 — CONDUCTOR Solid or Stranded Copper

3 HFFR — FILLER Halogen Free Flame Retardant

4 HFFR — OUTER SHEATH Halogen Free Flame Retardant

5 GSWA — ARMOUR Galvanized Round Steel Wire

**TECHNICAL SPECIFICATIONS**

| | | | | |
|---|---|---|---|---|
| CODE | N2XRH / YXZ2Z1 | | | |
| STANDARDS | DIN VDE 0276-604 | TS HD 604 S1 | TS IEC C60502-1 | TSE K 339 |

250 °C — Max. Short Circuit Temperature

90 °C — Max. Operating Temperature

Test Voltage (AC 3,5 Kv)

Low Smoke Density (EN 61034-2)

Min. Bending Radius
12xD

Pb — Lead Free

0,6 / 1 kV — Rated Voltage Uo/U

Flame Retardant Test of Bunched Cable
EN / IEC 60332-3-24 Cat. C

Halogen Free (EN / IEC 60754-1 / EN / IEC 60754-2)

**APPLICATION AREAS**

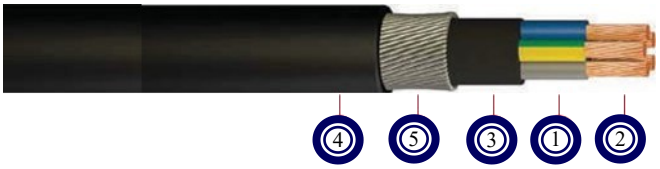
It's used in refineries , hotels , shcools , tunnels , high buildings , Hospitals , data processing centers and people-intensive business centers And fire-sensitive regions.

## TECHNICAL DATA — Cu/XLPE/SWA/HFFR

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| N2XRH / YXZ2Z1 | | | | | |
| 2x1,5 | 14 | 342 | 12,1 | 31 | 24 |
| 2x2,5 | 14,5 | 390 | 7,41 | 40 | 31 |
| 2x4 | 15,5 | 458 | 4,61 | 52 | 41 |
| 2x6 | 17 | 546 | 3,08 | 65 | 53 |
| 2x10 | 19,5 | 788 | 1,83 | 87 | 72 |
| 2x16 | 21,5 | 1012 | 1,15 | 113 | 96 |
| 2x25 | 26 | 1544 | 0,727 | 146 | 130 |
| 2x35 | 28 | 1836 | 0,524 | 176 | 160 |
| 2x50 | 30,5 | 2244 | 0,387 | 208 | 195 |
| 2x70 | 34,5 | 2896 | 0,268 | 256 | 247 |
| 2x95 | 38,5 | 3870 | 0,193 | 307 | 305 |
| 2x120 | 42 | 4626 | 0,153 | 349 | 355 |
| 2x150 | 45,5 | 5512 | 0,124 | 391 | 407 |
| 2x185 | 51 | 6990 | 0,0991 | 442 | 469 |
| 2x240 | 56,5 | 8716 | 0,0754 | 509 | 551 |

# CONSTRUCTION

## Halogen Free , Flame Retardant , XLPE Insulated , Multi-Core Armoured Cables




1 XLPE — INSULATION: Cross-Linked Polyethylene

2 — CONDUCTOR: Solid or Stranded Copper

3 HFFR — FILLER: Halogen Free Flame Retardant

4 HFFR — OUTER SHEATH: Halogen Free Flame Retardant

5 GSWA — ARMOUR: Galvanized Round Steel Wire

**TECHNICAL SPECIFICATIONS**

| CODE | N2XRH / YXZ2Z1 | | | |
|---|---|---|---|---|
| STANDARDS | DIN VDE 0276-604 | TS HD 604 S1 | TS IEC C60502-1 | TSE K 339 |

- 250 °C — Max. Short Circuit Temperature
- 90 °C — Max. Operating Temperature
- Test Voltage (AC 3,5 Kv)
- Low Smoke Density (EN 61034-2)
- Min. Bending Radius 12xD
- Pb — Lead Free
- 0,6 / 1 kV — Rated Voltage Uo/U
- Flame Retardant Test of Bunched Cable EN / IEC 60332-3-24 Cat. C
- Halogen Free (EN / IEC 60754-1 / EN / IEC 60754-2)

**APPLICATION AREAS**

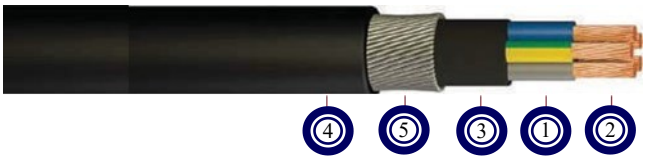
It's used in refineries , hotels , shcools , tunnels , high buildings , Hospitals , data processing centers and people-intensive business centers And fire-sensitive regions.

## TECHNICAL DATA — Cu/XLPE/SWA/HFFR

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| N2XRH / YXZ2Z1 | | | | | |
| 3x1,5 | 14,5 | 366 | 12,1 | 31 | 24 |
| 3x2,5 | 15 | 426 | 7,41 | 40 | 31 |
| 3x4 | 16,5 | 508 | 4,61 | 52 | 41 |
| 3x6 | 17,5 | 614 | 3,08 | 65 | 53 |
| 3x10 | 20 | 898 | 1,83 | 87 | 72 |
| 3x16 | 22,5 | 1172 | 1,15 | 113 | 96 |
| 3x25 | 27 | 1794 | 0,727 | 146 | 130 |
| 3x35 | 29 | 2162 | 0,524 | 176 | 160 |
| 3x50 | 32 | 2684 | 0,387 | 208 | 195 |
| 3x70 | 37 | 3722 | 0,268 | 256 | 247 |
| 3x95 | 40,5 | 4712 | 0,193 | 307 | 305 |
| 3x120 | 44,5 | 5692 | 0,153 | 349 | 355 |
| 3x150 | 49,5 | 7202 | 0,124 | 391 | 407 |
| 3x185 | 54 | 8598 | 0,0991 | 442 | 469 |
| 3x240 | 60 | 10812 | 0,0754 | 509 | 551 |
| 3x25+16 | 30 | 2100 | 0,727/1,15 | 146 | 130 |
| 3x35+16 | 31 | 2440 | 0,524/1,15 | 176 | 160 |
| 3x50+25 | 35 | 3100 | 0,387/0,727 | 208 | 195 |
| 3x70+35 | 40 | 4230 | 0,268/0,524 | 256 | 247 |
| 3x95+50 | 44 | 5340 | 0,193/0,387 | 307 | 305 |

# CONSTRUCTION

## Halogen Free , Flame Retardant , XLPE Insulated , Multi-Core Armoured Cables




1 XLPE — INSULATION: Cross-Linked Polyethylene

2 — CONDUCTOR: Solid or Stranded Copper

3 HFFR — FILLER: Halogen Free Flame Retardant

4 HFFR — OUTER SHEATH: Halogen Free Flame Retardant

5 GSWA — ARMOUR: Galvanized Round Steel Wire

**TECHNICAL SPECIFICATIONS**

| CODE | N2XRH / YXZ2Z1 | | | |
|---|---|---|---|---|
| STANDARDS | DIN VDE 0276-604 | TS HD 604 S1 | TS IEC C60502-1 | TSE K 339 |

250 °C — Max. Short Circuit Temperature

90 °C — Max. Operating Temperature

Test Voltage (AC 3,5 Kv)

Low Smoke Density (EN 61034-2)

Min. Bending Radius
12xD

Pb — Lead Free

0,6 / 1 kV — Rated Voltage Uo/U

Flame Retardant Test of Bunched Cable
EN / IEC 60332-3-24 Cat. C

Halogen Free (EN / IEC 60754-1 / EN / IEC 60754-2)

**APPLICATION AREAS**

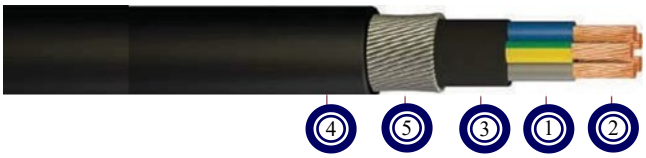
It's used in refineries , hotels , shcools , tunnels , high buildings , Hospitals , data processing centers and people-intensive business centers And fire-sensitive regions.

## TECHNICAL DATA — Cu/XLPE/SWA/HFFR

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| N2XRH / YXZ2Z1 | | | | | |
| 3x120+70 | 49 | 6600 | 0,153/0,268 | 349 | 355 |
| 3x150+70 | 53 | 8100 | 0,124/0,268 | 391 | 407 |
| 3x185+95 | 59 | 9800 | 0,0991/0,193 | 442 | 469 |
| 3x240+120 | 65 | 12250 | 0,0754/0,153 | 509 | 551 |
| 4x1,5 | 15 | 404 | 12,1 | 31 | 24 |
| 4x2,5 | 16 | 476 | 7,41 | 40 | 31 |
| 4x4 | 17 | 578 | 4,61 | 52 | 41 |
| 4x6 | 19,5 | 792 | 3,08 | 65 | 53 |
| 4x10 | 21,5 | 1042 | 1,83 | 87 | 72 |
| 4x16 | 24,5 | 1506 | 1,15 | 113 | 96 |
| 4x25 | 29 | 2128 | 0,727 | 146 | 130 |
| 4x35 | 31,5 | 2598 | 0,524 | 176 | 160 |
| 4x50 | 34,5 | 3242 | 0,387 | 208 | 195 |
| 4x70 | 40 | 4520 | 0,268 | 256 | 247 |
| 4x95 | 44 | 5780 | 0,193 | 307 | 305 |
| 4x120 | 49,5 | 7426 | 0,153 | 349 | 355 |
| 4x150 | 54 | 8840 | 0,124 | 391 | 407 |
| 4x185 | 59 | 10708 | 0,0991 | 442 | 469 |
| 4x240 | 66 | 13490 | 0,0754 | 509 | 551 |

# CONSTRUCTION

## Halogen Free , Flame Retardant , XLPE Insulated , Multi-Core Armoured Cables




1 XLPE **INSULATION** Cross-Linked Polyethylene

2 **CONDUCTOR** Solid or Stranded Copper

3 HFFR **FILLER** Halogen Free Flame Retardant

4 HFFR **OUTER SHEATH** Halogen Free Flame Retardant

5 GSWA **ARMOUR** Galvanized Round Steel Wire

**TECHNICAL SPECIFICATIONS**

| | | | | |
|---|---|---|---|---|
| CODE | N2XRH / YXZ2Z1 | | | |
| STANDARDS | DIN VDE 0276-604 | TS HD 604 S1 | TS IEC C60502-1 | TSE K 339 |

250 °C Max. Short Circuit Temperature

90 °C Max. Operating Temperature

Test Voltage (AC 3,5 Kv)

Low Smoke Density (EN 61034-2)

Min. Bending Radius
12xD

Pb Lead Free

0,6 / 1 kV Rated Voltage Uo/U

Flame Retardant Test of Bunched Cable
EN / IEC 60332-3-24 Cat. C

Halogen Free (EN / IEC 60754-1 / EN / IEC 60754-2)

**APPLICATION AREAS**

It's used in refineries , hotels , shcools , tunnels , high buildings , Hospitals , data processing centers and people-intensive business centers And fire-sensitive regions.

## TECHNICAL DATA Cu/XLPE/SWA/HFFR

| Nominal Cross Section (mm²) | Cable Overall Diameter (mm) | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km (20C°) | Current Carrying Capacity | |
|---|---|---|---|---|---|
| | | | | In the conduit (A) | In the air (A) |
| N2XRH / YXZ2Z1 | | | | | |
| 5x1,5 | 16 | 448 | 12,1 | 31 | 24 |
| 5x2,5 | 17 | 532 | 7,41 | 40 | 31 |
| 5x4 | 19 | 742 | 4,61 | 52 | 41 |
| 5x6 | 20,5 | 900 | 3,08 | 65 | 53 |
| 5x10 | 23 | 1192 | 1,83 | 87 | 72 |
| 5x16 | 26,5 | 1756 | 1,15 | 113 | 96 |
| 5x25 | 31,5 | 2500 | 0,727 | 146 | 130 |
| 5x35 | 34 | 3068 | 0,524 | 176 | 160 |
| 7x1,5 | 16 | 448 | 12,1 | 16 | 15,6 |
| 7x2,5 | 18 | 634 | 7,41 | 21 | 20,8 |

# CABLE TECHNICAL INFORMATION

## Stranded and Thin Multi-Wire Copper Conductor

## Stranded Copper Conductor Class 2

TECHNICAL DATA | Cu

| Nominal Cross Section (mm²) | Number of Wires | Single Wire Diameter mm | Conductor Diameter mm | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km | Mechanical (Single Wire) properties of copper conductor | |
|---|---|---|---|---|---|---|---|
| | | | | | | Min. Lying Down | Min. Strength |
| COPPER CONDUCTORS | | | | | | | |
| 1,5 | 7 | 0,53 | 1,59 | 13 | 12,1 | 24 | 200 |
| 2,5 | 7 | 0,67 | 2,01 | 21 | 7,41 | 24 | 200 |
| 4 | 7 | 0,85 | 2,55 | 35 | 4,61 | 24 | 200 |
| 6 | 7 | 1,05 | 3,15 | 52 | 3,08 | 26 | 200 |
| 10 | 7 | 1,35 | 3,85 | 87 | 1,83 | 26 | 200 |
| 16 | 7 | 1,74 | 4,8 | 137 | 1,15 | 28 | 200 |
| 25 | 7 | 2,19 | 5,8 | 215 | 0,727 | 28 | 200 |
| 35 | 7 | 2,62 | 6,9 | 300 | 0,524 | 28 | 200 |
| 50 | 10 | 2,62 | 8,2 | 410 | 0,387 | 28 | 200 |
| 70 | 14 | 2,62 | 9,7 | 595 | 0,268 | 28 | 200 |
| 95 | 19 | 2,62 | 11,4 | 820 | 0,193 | 28 | 200 |
| 120 | 24 | 2,62 | 13,1 | 1040 | 0,153 | 28 | 200 |
| 150 | 30 | 2,62 | 14,2 | 1280 | 0,124 | 28 | 200 |
| 185 | 37 | 2,62 | 15,8 | 1600 | 0,0991 | 28 | 200 |
| 240 | 48 | 2,62 | 18,6 | 2100 | 0,0754 | 28 | 200 |
| 300 | 58 | 2,62 | 20,4 | 2700 | 0,0601 | 28 | 200 |
| 400 | 55 | 3 | 23 | 3400 | 0,0470 | 33 | 200 |
| 500 | 70 | 3 | 26 | 4400 | 0,0366 | 33 | 200 |

## Thin Multi-Wire Copper Conductor Class 5

TECHNICAL DATA | Cu

| Nominal Cross Section (mm²) | Number of Wires | Single Wire Diameter mm | Conductor Diameter mm | Approximate Net Weight (kg/km) | Conductor Resistance Max.ohm/km | Mechanical (Single Wire) properties of copper conductor | |
|---|---|---|---|---|---|---|---|
| | | | | | | Min. Lying Down | Min. Strength |
| COPPER CONDUCTORS | | | | | | | |
| 0,5 | 16 | 0,19 | 0,95 | 4,3 | 39 | 21 | 200 |
| 0,75 | 24 | 0,19 | 1,15 | 6,3 | 26 | 21 | 200 |
| 1 | 32 | 0,19 | 1,3 | 8,5 | 19,50 | 21 | 200 |
| 1,5 | 30 | 0,24 | 1,5 | 12 | 13,30 | 21 | 200 |
| 2,5 | 45 | 0,25 | 1,95 | 20 | 7,98 | 21 | 200 |
| 4 | 50 | 0,3 | 2,5 | 33 | 4,95 | 21 | 200 |
| 6 | 75 | 0,3 | 3,1 | 49 | 3,3 | 21 | 200 |
| 10 | 74 | 0,4 | 4,1 | 83 | 1,91 | 22 | 200 |
| 16 | 116 | 0,4 | 5,25 | 133 | 1,21 | 22 | 200 |
| 25 | 224 | 0,35 | 6,6 | 204 | 0,780 | 22 | 200 |
| 35 | 329 | 0,35 | 7,75 | 290 | 0,554 | 22 | 200 |
| 50 | 470 | 0,35 | 9,25 | 414 | 0,386 | 22 | 200 |
| 70 | 658 | 0,35 | 11 | 580 | 0,272 | 22 | 200 |
| 95 | 893 | 0,35 | 13,1 | 785 | 0,206 | 22 | 200 |
| 120 | 1128 | 0,35 | 14,2 | 1000 | 0,161 | 22 | 200 |
| 150 | 1410 | 0,35 | 15,8 | 1240 | 0,129 | 22 | 200 |
| 185 | 1739 | 0,35 | 18,6 | 1530 | 0,106 | 22 | 200 |
| 240 | 2256 | 0,35 | 21 | 2000 | 0,0801 | 22 | 200 |
| 300 | 2820 | 0,35 | 23 | 2500 | 0,0541 | 22 | 200 |

# CONTACT


E-mail: info@megacab.com

Web: www.megacab.com.tr

Phone: +90 553 232 51 32


MEGACAB