

KEI

Wires & Cables

The power behind the power



PVC INDUSTRIAL WIRES & CABLES

Multicore Flexible Cable for Appliances & Machine tools

- Compact construction reduces weight per metre
- Rugged yet flexible for industrial use
- High temperature insulation

Technical Specification

| Type of Insulation | Type of Sheathing | Applicable Standards | Typical Applications |
|--------------------------------|----------------------------------|---|--|
| Standard PVC | Standard PVC, HRPVC | IS 694, BS 6500, IEC 60227, DIN VDE-0281 | Power cords for appliance, temporary power supplies, 3 core flat cables are suitable for submersible pump applications. |
| Heat Resistant PVC up to 105°C | Standard PVC, HRPVC | IS 694, BS 6500, IEC 60227 DIN VDE-0281 | Hi-power appliances, ovens, temporary power supply in higher temperature areas. |
| Standard PVC of FRLS | FRLS (Flame Retardant Low Smoke) | IS 694, BS 6500, IEC 60227, DIN VDE-0281 , IEC 60754-1, IEC 60332-1, BS-4066-1,ASTMD 2843, ASTMD-2863 | Power cords for application used in fire prone areas, flame proof equipments, machine tools used in critical locations and heat zones. |

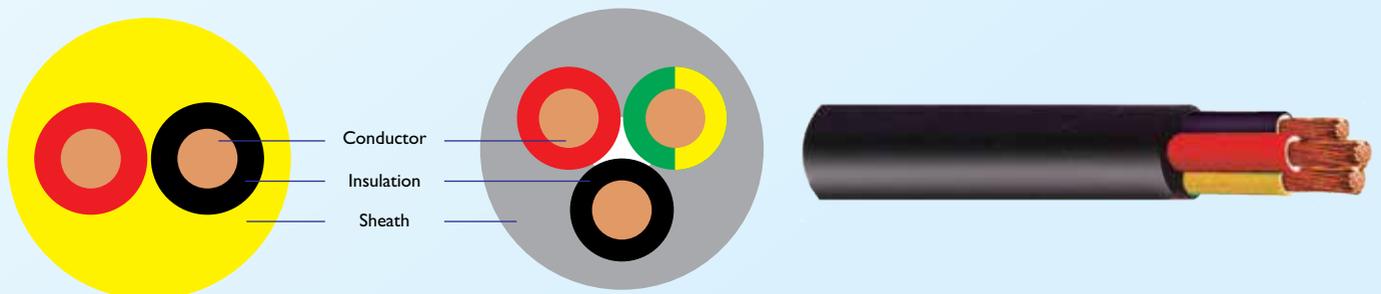
KEI Multicore Round Insulated Copper Conductor And Sheathed Flexible Cables, 1100 Voltage Grade

| Nominal Cross Sectional Area of Conductor | Number/ Nom. Dia of cond. strands* | Thickness of Insulation (Nom) | Nominal Thickness of Sheath | | | Approx. Overall Diameter | | | Current Rating AC | Voltage Drop/ Amp/Metre | | Max. Conductor Resistance per KM at 20°C |
|---|------------------------------------|-------------------------------|-----------------------------|------------|-----------|--------------------------|------------|-----------|-------------------|-------------------------|------------|--|
| | | | Two Core | Three Core | Four Core | Two Core | Three Core | Four Core | | DC or Single Phase AC | 3 Phase AC | |
| sq.mm. | mm | mm | mm | mm | mm | mm | mm | mm | Amps | mV | mV | Ohms |
| 0.5 | 16/0.20 | 0.6 | 0.9 | 0.9 | 0.9 | 6.2 | 6.6 | 7.2 | 6 | 83 | 72 | 39.0 |
| 0.75 | 24/0.20 | 0.6 | 0.9 | 0.9 | 0.9 | 6.5 | 6.9 | 7.6 | 9 | 56 | 48 | 26.0 |
| 1.0 | 32/0.20 | 0.6 | 0.9 | 0.9 | 0.9 | 6.9 | 7.3 | 8.2 | 14 | 43 | 37 | 19.5 |
| 1.5 | 30/0.25 | 0.6 | 0.9 | 0.9 | 1.0 | 7.6 | 8.2 | 9.3 | 18 | 31 | 26 | 13.3 |
| 2.5 | 50/0.25 | 0.7 | 1.0 | 1.0 | 1.0 | 9.0 | 9.6 | 10.5 | 24 | 18 | 16 | 7.98 |
| 4.0 | 56/0.30 | 0.8 | 1.0 | 1.0 | 1.0 | 10.3 | 10.9 | 12.3 | 32 | 11 | 9.6 | 4.95 |

Note: Conductor as per class V. Supplied in 100 metre lengths with black outer sheath and in bigger packing on request. Any colour on specific request can be supplied, in economical run. Higher sizes of nominal cross sectional area of conductor area are also available on request.

*The number and diameter of conductor strands are for reference only. Conductor resistance as per IS:8130 is the governing criteria.

The above data is indicative and may be revised without prior intimation.



Single Core Insulated Copper Conductor (Unsheathed) Flexible Cable, 1100 Voltage Grade for Industrial application

- Higher safety factors
- Compact construction
- Choice of superior insulation system for meeting IEC classification, temperature rise, protection etc.



Technical Specification

| | FR | FRLS | ZHFR |
|----------------------|--|---|--|
| Type of insulation | 70°C/105°C Heat Resistant PVC | Flame Retardant Low Smoke (FRLS) | Halogen Free (HFFR) From 1.0 to 4.0 sq.mm. |
| Typical applications | Wiring of panels for use in high ambient temperature | Wiring in high density critical installations in public places and fire prone areas | Wiring in high density critical installations in public places and in vicinity of electronic systems |
| Applicable standards | IS-694, BS 6004, IEC 60227, DIN VDE-0281-3 | IEC 60332-1, BS 4066-1, EIC-60754-1, ASTMD-2843,ASTMD-2863 | IEC 60332-1&3, BS 4066-1&3, IEC 60754-1&2,ASTMD-2863, BS 7211, DIN VDE-0282-9 |

Single Core Insulated Copper Conductor (Unsheathed) Flexible Cables, 1100 Voltage Grade for Industrial Application

| Nominal Cross Sectional Area of Conductor | Number/ Nom. Dia of cond. strands* | Thickness of Insulation (Nom) | Approx. Overall Diameter | Max. Current Carrying Capacity | Max. Conductor Resistance per KM at 20°C |
|---|------------------------------------|-------------------------------|--------------------------|--------------------------------|--|
| sq. mm. | mm | mm | mm | Amps | Ohms |
| 10 | 80/0.4 | 1.0 | 6.30 | 55 | 1.91 |
| 16 | 126/0.4 | 1.0 | 7.40 | 75 | 1.21 |
| 25 | 196/0.4 | 1.2 | 9.10 | 100 | 0.780 |
| 35 | 276/0.4 | 1.2 | 10.30 | 125 | 0.554 |
| 50 | 396/0.4 | 1.4 | 12.20 | 165 | 0.386 |
| 70 | 354/0.5 | 1.4 | 14.10 | 240 | 0.272 |
| 95 | 484/0.5 | 1.6 | 16.40 | 300 | 0.206 |
| 120 | 608/0.5 | 1.6 | 18.00 | 325 | 0.161 |
| 150 | 750/0.5 | 1.8 | 20.10 | 352 | 0.129 |
| 185 | 925/0.5 | 2.0 | 22.30 | 415 | 0.106 |
| 240 | 1210/0.5 | 2.2 | 25.20 | 500 | 0.0801 |
| 300 | 1520/0.5 | 2.4 | 28.50 | 585 | 0.0641 |

Note: Conductor as per class V. 100 metre packing lengths as per IS:694 and in bigger packing on request. Higher sizes of nominal cross sectional area of conductor area are also available on request.
 *The number and diameter of conductor strands are for reference only. Conductor resistance as per IS:8130 is the governing criteria.
 The above data is indicative and may be revised without prior intimation.

Construction:-

- Conductor** : Plain annealed copper conductor as per IS:8130
Insulation : **Primary** - Natural Type A PVC
Colour : As per IS:694

Any other colour on specific request can also be supplied. Subject to economical run.



Submersible Flat Cables (Three Core) for Voltage up to 1100 V AC

- Fits perfect required Grommet
- As per IS dimension
- Perfect sheathing for under water application



Technical Specification

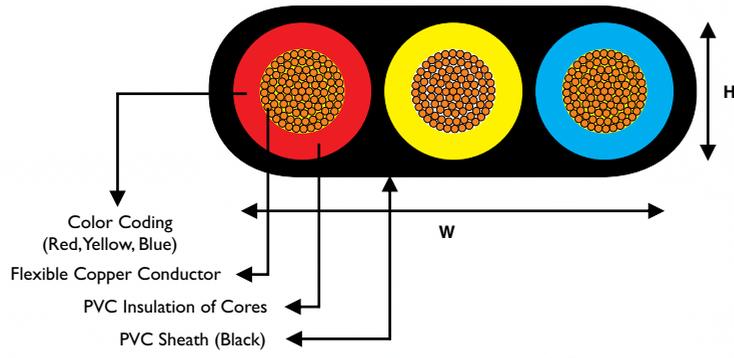
Conductor: Nicely bunched high purity bright, electrolytic grade, plain annealed copper with superb flexibility according to harmonized grades HO5V-K, HO7V-K, BS 6360 class 5 available in various sizes.

Insulation & Sheathing: Generally available with general purpose insulation and normal PVC sheathing, choice of insulation and sheathing is available on special order.

Three Core Flat Flexible Industrial Cable For Submersible Pump Motors, 1100 Voltage Grade

| Nominal Area of Conductor | INSULATION | | | Overall Dimensions (Max.) | | Max. Conductor Resistance at 20°C (Max.) | Current Carrying Capacity at 40°C |
|---------------------------|-------------------------------------|------------------|------------------|---------------------------|----------|--|-----------------------------------|
| | *Number/ Size of Wire for each Core | Thickness (Nom.) | Core Dia. (Nom.) | Width W | Height H | | |
| | sq. mm | mm | mm | | | | |
| 1.50 | 30/0.25 | 0.6 | 2.9 | 12.0 | 5.6 | 13.3 | 14 |
| 2.50 | 50/0.25 | 0.7 | 3.5 | 13.0 | 6.2 | 7.98 | 18 |
| 4.00 | 56/0.30 | 0.8 | 4.0 | 15.3 | 7.1 | 4.95 | 26 |
| 6.00 | 84/0.30 | 0.8 | 4.90 | 19.20 | 8.4 | 3.3 | 31 |
| 10.00 | 80/0.40 | 1 | 6.20 | 24.2 | 10.40 | 1.91 | 42 |
| 16.00 | 126/0.40 | 1 | 7.30 | 29 | 12.40 | 1.21 | 57 |
| 25.00 | 196/0.40 | 1.2 | 8.90 | 36.50 | 15.70 | 0.78 | 72 |
| 35.00 | 276/0.40 | 1.2 | 10.10 | 40.5 | 17.20 | 0.554 | 90 |

Note: All Conductor shall be as per class 5 IS:8130. Supplied in 500±5% metre packing on drums. Can also be supplied in 100 metre packing on request.*The number and diameter of conductor strands are for reference only. Conductor resistance as per IS:8130 is the governing criteria. The above data is indicative and may be revised without prior intimation.



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