

| Technical data | | | | | Weight/reel | | | |
|-------------------------|-------------------------------------|---------|------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------|----------------------------------------|-------------------------------|
| Conductor cross-section | Number of wires x Wire Ø (mm) | AWG No. | Max. conductor resistance at 20 °C/km | Max. operating voltage Test voltage | Max. current rating at 50 °C Ambient temperature | 100 m weighs approx. | 500 m weighs Including reel approx. | Size of standard plastic reel |
| 0.34 mm ² | 7 x 0.25 | 22 | 56 Ω | 300/1,500 V | 6 A | 430 g | 2.1 kg | K 160 |
| 0.22 mm ² | 7 x 0.20 | 24 | 88 Ω | 600/2,000 V | 4 A | 360 g | 1.7 kg | K 160 |
| 0.56 mm ² | 7 x 0.32 | 20 | 34 Ω | 600/2,000 V | 8 A | 740 g | 3.4 kg | K 160 |

| | |
|---------------------------|-----------------------------------------------------------------------------------|
| Conductors: | tinned copper strands |
| Insulation: | semi-rigid (≥95 Shore A) semi-rigid (SR) PVC |
| Temperature range: | -20°C ... + 90°C (constant) +120°C (24 hours) -40°C (permanently installed) |

Insulation displacement connectors (IDC)

Insulation displacement connectors are a solder-free connection system. In this process the insulation is penetrated and clamped in the U or V shaped contact in a single step. The conductors do not need to be stripped or pre-tinned. To ensure a perfect connection, only correctly twisted strands, 7-wire or 19-wire as per VDE 0881 can be used. Normal bunched strands as per VDE 0812 are not suitable.

No PVC residue may remain between the contact and the conductor when piercing the insulation. This requires an insulation hardness of ≥95 Shore A.

Excellent properties of SR-PVC for insulation displacement connectors are the high notch toughness, the low degree of shrinkage, the high tensile strength and expansion.



Insulation displacement connectors (IDC)

| Major data | | | | Net price including copper | | | Colours | |
|-----------------------------|-------------------------------------|---------------------------------|------------------------|--------------------------------------------------------|------------------------------------------------------|--------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Cross-section /AWG No. | Ø of the insulated strands in mm | Insulation wall thickness in mm | Max. operating voltage | in EUR per 100 metres on collection (per colour) of | | | Ordering information (Please also specify the colour) | Usually available ex-stock Colours |
| | | | | Normal stock unit: 100-m ring | Normal stock unit: 500-m reel 500 m upwards | 5,000 m upwards | | |
| 0.34 mm ² AWG 22 | 1.05 Ø | 0.15 | 300 V | 17.00 | 11.40 | 8.50 | MSR-22-730 | No. Colour |
| 0.22 mm ² AWG 24 | 1.15 Ø | 0.25 | 600 V | 16.85 | 11.20 | 8.40 | TSR-24-732 | 11 black |
| 0.56 mm ² AWG 20 | 1.45 Ø | 0.25 | 600 V | 22.20 | 14.80 | 11.10 | TSR-20-728 | 22 white 33 grey 44 red 55 blue 60 orange 66 yellow 77 green 88 purple 99 brown |

For orders of 500 m or more, please specify delivery as 500-m reels or 100-m rings.

| | |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The 100-m rings are packed tangle-free in boxes; | *Description of the ordering designations: M = max. operating voltage = 300 V T = max. operating voltage = 600 V SR = semi-rigid insulation 22-24-20 = AWG number 7 = number of copper wires 30-32-28 = AWG number of one wire |
| the 500-m plastic reels correspond approximately to DIN size K160. | |



The insulation of our strands for Termi-Point connections always achieve the best possible values for:

- Notch resistance of the insulation
- Seating of the conductor in the insulation (lightly adherent)
- Tensile expansion behaviour of the insulation
- Tear resistance of the insulation

Termi-Point® connectors

Termi-Point connectors are also a solder-free connection system where the wires are pressed onto a pin by a sleeve without first stripping the insulation from the conductor. Only correctly twisted 7-wire strands and a PVC compound (semi-rigid PVC) specially developed for Termi-Point connectors can be used for this.

