

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 mm²	7 x 0.25	22	56 Ω	300/1,500 V	6 A	430 g	2.1 kg	K 160	
0.22 mm²	7 x 0.20	24	88 Ω	600/2,000 V	4 A	360 g	1.7 kg	K 160	
0.56 mm²	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 mm² AWG 22	1.05 Ø	0.15	300 V	17.00	11.40	8.50	MSR-22-730	No. Colour
0.22 mm² AWG 24	1.15 Ø	0.25	600 V	16.85	11.20	8.40	TSR-24-732	11 black
0.56 mm² AWG 20	1.45 Ø	0.25	600 V	22.20	14.80	11.10	TSR-20-728	22 white
For orders of 500 m or more, please specify delivery as 500-m reels or 100-m rings.								33 grey
The 100-m rings are packed tangle-free in boxes;				*Description of the ordering designations:				44 red
the 500-m plastic reels correspond approximately to DIN size K160.				M = max. operating voltage = 300 V				55 blue
				T = max. operating voltage = 600 V				60 orange
				SR = semi-rigid insulation				66 yellow
				22-24-20 = AWG number				77 green
				7 = number of copper wires				88 purple
				30-32-28 = AWG number of one wire				99 brown



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.

