

# Signal cable type 2400

## Steel wire braided collective screened multipair signalling cable mb



### Application:

- For intercoms, security systems, fire alarm and instrumentation applications
- Also suitable for EIA/RS-232 systems with a low data transfer rate (< 1Mbps) and PLC-systems
- For direct burial
- Suitable for areas with many electromagnetic interference (EMI) signals

### Properties regarding fire performance:

- Halogen free, in accordance with NEN-EN-IEC 60754
- Low smoke, in accordance with NEN-EN-IEC 61034
- Flame retardant in accordance with NEN-EN-IEC 60332-3-24 (cat. C)
- Self extinguishing, in accordance with NEN-EN-IEC 60332-1

### General properties:

- Good signal transmission at frequencies up to 100 kHz
- The construction of the cable largely prevents cross talk between the pairs
- The overall shield offers good protection against electromagnetic interference (EMI)
- Excellent mechanical protection due to the galvanized steel wire armour

### Remarks:

- Not suitable for power installations

### Construction:

**Construction:** solid plain copper

**Insulation:** halogen free flame retardant thermoplastic (LSOH)

**Cores:** 2 cores twisted to a pair

**Assembly:** pairs cabled together, wrapped with polyester foil

**Overall screen:** metallized polyester foil with underneath a drain wire of solid plain copper

**Inner sheath:** halogen free flame retardant thermoplastic (LSOH)

**Overall screen:** galvanized steel wires

**Outer sheath:** halogen free flame retardant thermoplastic (LSOH)

### Electrical properties:

**Voltage rating ac:** 300 V

**Voltage rating dc:** 450 V

**Test voltage:** 1 kV

**Insulation resistance:** > 10 MΩ.km

### Core colours:

**Standard colours:** in accordance with NEN 1597

### Standards/References:

K 165

NEN-EN-IEC 60332-1

NEN-EN-IEC 60332-3

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### Construction data

Diameter conductor	0.8 mm
Conductor category	Class 1 = solid
Stranding element	Pairs
Core insulation	PE (polyethylene)
Core identification	Colour
Screen over stranding element	None
Screen over stranding	Foil
Protective sheath	No
Armouring	No
Material outer sheath	Copolymer, thermoplastic
Colour outer sheath	Green
Conductor material	Cu, bare
Fire-resistant layer (core)	No
Fire-resistant layer (lay-up)	No
Armouring/reinforcement	Braiding
Material armouring	Galvanized steel
Elements	x2x

### Properties

Longitudinal water blocking	No
Radial water blocking	No
Halogen free (acc. EN 50267-2-2)	Yes
Halogen free (acc. EN 60754-1/2)	Yes
Flame retardant	In accordance with EN 60332-3- 24
Low smoke (acc. EN 61034-2)	Yes
Circuit integrity	No
Permitted cable outer temperature, in movement	-20 / 70 °C
Permitted cable outer temperature, fixed	-40 / 90 °C
Outdoor use permitted	Yes
Oil resistant	Good

### Electrical

Conductor resistance 20°C	37.5 ohm/km
Operating capacity	120 nF/km

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NEN-EN-IEC 61034  
NEN-EN-IEC 60754  
NEN 1597

**Additional information:**

**Minimum installation temperature:** +5 °C

**Operating temperature:** min. -30 °C, max. +70 °C

**Sheath colour:** green

**Approval:** KEMA-KEUR

**Packaging:** drums

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#### Product Range

Product nr.	No. of cores and conductor size <sup>1</sup> (n x mm/mm <sup>2</sup> )	Type	Nominal overall diameter (mm)	Minimum bending radius (mm)	Maximum tensile strength (N)	Approx. weight (kg/km)
130459	1x2x0,8	2401	7,7	35	14	100
130454	2x2x0,8	2402	9,9	50	28	140
130455	3x2x0,8	2403	10,3	55	43	155
118982	6x2x0,8	2406	12,5	75	86	230
130456	12x2x0,8	2412	15,0	90	170	340
130457	19x2x0,8	2419	17,1	105	270	465
130458	24x2x0,8	2424	19,5	120	340	570

1) Conductor size of 0,8 type is conductor diameter in mm, of 1, 1,5 and 2,5 types is conductor cross section in mm<sup>2</sup>

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#### Electrical features

Product nr.	No. of cores and conductor size <sup>1</sup> (n x mm/mm <sup>2</sup> )	Type
130459	1x2x0,8	2401
130454	2x2x0,8	2402
130455	3x2x0,8	2403
118982	6x2x0,8	2406
130456	12x2x0,8	2412
130457	19x2x0,8	2419
130458	24x2x0,8	2424

1) Conductor size of 0,8 type is conductor diameter in mm, of 1, 1,5 and 2,5 types is conductor cross section in mm<sup>2</sup>