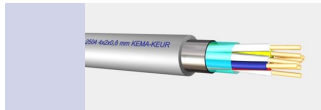


# Signal cable type 2500

## Halogen free overall screened multipair signalling cable mbzh



### Application:

- Halogen free signalling cable for fixed installation
- In intercoms, security systems, fire alarm and instrumentation applications
- Also suitable in EIA/RS-232 systems with a low data transfer rate (< 1Mbps) and PLC-systems
- Suitable for areas with many electromagnetic interference (EMI) signals

### Properties regarding fire performance:

- Halogen free, in accordance with NEN-EN 50267 (IEC 60754)
- Low smoke, in accordance with NEN-EN-IEC 61034
- 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)

### Remark

- Not suitable for power installations

### Construction:

**Conductor:** solid plain copper

**Insulation:** polyethylene (PE)

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

**Assembly:** pairs or quad cabled and wrapped with polyester foil

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

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

### Electrical properties:

**Voltage rating:** 300 V

**Test voltage:** 1,5kV

**Insulation resistance:** >1000 M .km

### Core colours:

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

### Standards/References:

KEMA 102

NEN-EN-IEC 60332-1

NEN-EN-IEC 61034

NEN-EN 50267(IEC 60754)

### Additional information:

**Minimum installation temperature:** -20 °C

**Operating temperature:** min. -40 °C, max. +70 °C

**Sheath colour:** grey

**Approval:** KEMA-KEUR

**Packaging:** coils, drums

### Construction data

Diameter conductor	0.8 mm
Conductor category	Class 1 = solid
Core insulation	PE
Core identification	Colour
Screen over stranding	Foil
Longitudinal water blocking	No
Radial water blocking	No
Protective sheath	No
Armouring	No
Material outer sheath	Copolymer, thermoplastic
Flame retardant	Acc. EN 60332-1-2
Circuit integrity	No
Operating temperature, flexible	-25/70 °C
Operating temperature, fix	-40/70 °C
Conductor material	Cu, bare
Fire-resistant layer (core)	No
Fire-resistant layer (lay-up)	No

### Properties

Oil resistant	Good
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### Electrical

#### standards

Standard	KEMA K102
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### Product packing

Length of 1 m

Reel of 1 m

Reel of 500 m

## Signal cable type 2500 - Continuation

### Halogen free overall screened multipair signalling cable mbzh



#### Product Range

Product nr.	Diameter conductor (mm)	Type	Nominal overall diameter (mm)	Minimum bending radius (mm)	Maximum tensile strength (N)	Approx. weight (kg/km)
129017	1x2x	2501.150	6,4	30	45	55
129546	1x2x-	2501.100	6	25	30	45
129547	1x2x-	2501.250	7,5	30	75	81
118974	1x2x0,8	2501	5	20	15	31
118975	1x4x0,8	2502Q	5,7	25	30	44
126823	2x2x0,8	2502	7,1	30	30	50
126824	3x2x0,8	2503	7,5	30	45	65
128067	4x2x0,8	2504	7,7	35	60	75
118976	6x2x0,8	2506	9	45	90	105

Type 2502Q: 2 pairs constructed as a quad, the opposite cores form a pair.

#### Electrical features

Product nr.	Diameter conductor (mm)	Type
129017	1x2x	2501.150
129546	1x2x-	2501.100
129547	1x2x-	2501.250
118974	1x2x0,8	2501
118975	1x4x0,8	2502Q
126823	2x2x0,8	2502
126824	3x2x0,8	2503
128067	4x2x0,8	2504
118976	6x2x0,8	2506

Type 2502Q: 2 pairs constructed as a quad, the opposite cores form a pair.