

# Signal cable type 3400

## Halogen free multipair signalling cable mbzh



### Application:

- Halogen free signalling cable for fixed installation

### 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

### Remark:

- Not suitable for power installations

### Construction:

**Conductor:** solid plain copper

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

**Cores:** twisted to a pair, wrapped with polyester foil

**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  
 NEN-EN-IEC 61034  
 NEN-EN-IEC 60754/NEN 1597

### 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
Stranding element	Pairs
Core insulation	PE (polyethylene)
Core identification	Colour
Screen over stranding element	None
Screen over stranding	None
Protective sheath	No
Armouring	No
Material outer sheath	Copolymer, thermoplastic
Colour outer sheath	Grey
Conductor material	Cu, bare
Fire-resistant layer (core)	No
Fire-resistant layer (lay-up)	No
Armouring/reinforcement	None
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 / 70 °C
Outdoor use permitted	Yes
Oil resistant	Good

### Electrical

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

# Signal cable type 3400

## Halogen free multipair signalling cable mbzh

### 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)
128095	1x2x0,8	3401	4,1	20	14	23
128095	1x2x0,8	3401	4,1	20	14	23
128096	2x2x0,8	3402	6,3	30	28	43
128096	2x2x0,8	3402	6,3	30	28	43
128097	4x2x0,8	3404	7,4	30	57	75
128097	4x2x0,8	3404	7,4	30	57	75
129548	6x2x0,8	3406	9,4	50	90	115
128678	8x2x0,8	3408	9,8	50	110	135
128678	8x2x0,8	3408	9,8	50	110	135
128679	12x2x0,8	3412	11,2	60	170	190
129549	16x2x0,8	3416	14,2	90	240	250
129550	20x2x0,8	3420	15,7	95	300	310

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>

# Signal cable type 3400

## Halogen free multipair signalling cable mbzh

### Electrical features

Product nr.	No. of cores and conductor size <sup>1</sup> (n x mm/mm <sup>2</sup> )	Type
128095	1x2x0,8	3401
128095	1x2x0,8	3401
128096	2x2x0,8	3402
128096	2x2x0,8	3402
128097	4x2x0,8	3404
128097	4x2x0,8	3404
129548	6x2x0,8	3406
128678	8x2x0,8	3408
128678	8x2x0,8	3408
128679	12x2x0,8	3412
129549	16x2x0,8	3416
129550	20x2x0,8	3420

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>