HTKSHekw FE180/PH120/E90

RoHS 2011/65/EU

LVD 2014/35/EU

24 months warranty

Halogen-free telecommunication cable

internal application | EN 60332-1 | EN 60332-3 | halogen-free EN 60754 | low smoke emission EN 61034

Technical data:

Thermal parameters:

Temperature range:
fixed installation: -40 °C to 80 °C
min. instalation temp: -5 °C

Electrical parameters:

Operating voltage: 150 V
Test voltage:
AC 1500 V
DC 2250 V
Insulation resistance (minimum):
200 MΩ*km
Pair loop resistance at 20 °C (maximum):
0,5 mm - 195,6 Ω/km
0,8 mm - 75 Ω/km
1,0 mm - 48 Ω/km
Mutual capacitance of pair at 1 kHz (maximum): 150 nF/km

Mechanical parameters:

Min. bending radius: 10 x Ø

Cable characteristics:

- fire resistant
- halogen-free
- flame retardant
- no corrosive gases (acidity pH ≥ 4,3; conductivity < 10 µS/mm)
- low smoke emission (light transmittance over 60%)
- low fire load (calorific value)

Design:

Conductors:	solid copper conductor class 1, acc. to PN-EN 60228
Insulation:	halogen-free compound
Core colors:	acc. to PN-T-90321:1992
Core arrangement:	core twisted in pairs, pairs twisted together
Wrapping:	polyester tape
Screen:	aluminium backed polyester type with tinned copper drain wire Ø = 0,4 mm
Outer sheath:	halogen-free polymer compound, colour: red

Application:

Halogen-free special cables for interconnecting station equipment, telephone and teletransmission equipment and data transmission devices by means of analogue and digital signals in control and signalling fire protections systems. The cables are used primarily as transmission and power suplly lines for line equipment (sensors, linear modules) in supervised lines of fire signalling systems and autonomous fire extinguisher and smoke removal control systems. The cables are incorporated in systems used at the „0" moment of fire origination (the moment of fire detection by the central detector). The cables can be used for transmitting trigger signals or conditions to auxiliary devices, which are activated by the central fire signalling mechanism upon detection of a fire (e.g. disconnection of a residential ventilation system, downward movement of passenger lifts, switching off of the power supply of building). Static screen protects the cable against interferences of external magnetic fields.

Tests:

Flame propagation test for a single insulated cable: EN 60332-1, IEC 60332-1, VDE 0482-332-1
Flame propagation test for vertically-mounted bunched cables: EN 60332-3-24, IEC 60332-3-24,VDE 0482-332-3-24
Test on corrosive gases emitted during burning: EN 60754-2, IEC 60754-2, VDE 0482-754-2
Smoke density emission during burning: EN 61034-2, IEC 61034-2, VDE 0482-1034-2

Cat. no	n x mm	Outer diameter [mm]	Approximate cable weight [kg/km]
TN0346	1x2x0,5	3,6	16
TN0347	1x4x0,5	4,0	22
TN0348	2x2x0,5	4,7	24
TN0349	3x2x0,5	5,1	30
TN0350	4x2x0,5	5,7	37
TN0351	5x2x0,5	6,2	43
TN0352	7x2x0,5	6,9	58
TN0353	10x2x0,5	7,9	76
TN0354	12x2x0,5	8,5	87
TN0355	14x2x0,5	9,1	99
TN0300	1x2x0,8	4,6	26
TN0301	1x4x0,8	5,2	40
TN0302	2x2x0,8	6,3	44
TN0303	3x2x0,8	7,1	61
TN0304	4x2x0,8	8,0	77
TN0305	5x2x0,8	8,7	92

Cat. no	n x mm	Outer diameter [mm]	Approximate cable weight [kg/km]
TN0312	7x2x0,8	9,8	124
TN0309	10x2x0,8	11,5	173
TN0356	12x2x0,8	12,4	201
TN0357	14x2x0,8	13,3	230
TN0358	21x2x0,8	14,5	327
TN0359	30x2x0,8	16,7	445
TN0360	42x2x0,8	19,6	620
TN0306	1x2x1,0	5,4	37
TN0313	1x4x1,0	6,4	61
TN0307	2x2x1,0	7,7	67
TN0311	3x2x1,0	8,7	93
TN0314	4x2x1,0	9,9	117
TN0315	5x2x1,0	10,8	145
TN0316	7x2x1,0	12,1	189
TN0317	10x2x1,0	14,2	263
TN0361	12x2x1,0	15,4	307
TN0362	14x2x1,0	16,6	352