



Data and communication cable

TKF BUS KNX (EIB) JH(st)H Cca

Article number: 176128

02-10-2026

Description

2 x 2 x 0,8 + 0,8 mm Green

Application:

TKF bus cable according to (EIB)-KNX standard for use in building automation and home automation where high fire safety requirements are imposed.

Characteristics (properties):

- CPR certified, class Cca,s1,d1,a1
- Halogen-free
- Solid conductors according to IEC 60228 class 1
- The pairs of conductors are twisted with an optimal, non-harmonic pitch relative to each other with at least 7 twists per meter. This ensures good crosstalk attenuation.
- Collective shielding of aluminum foil with underlying grounding wire.

Core identification:

- 2 pairs: red/black, white/yellow



* This image may differ from the actual product.

Trading information

Product group	Data and communication cable
Type	TKF BUS KNX (EIB) JH(st)H Cca
Net. Weight	0,051 kg/m
Sheath marking	{Length} TKF BUS KNX (EIB) JH(st)H Cca-s1,d1,a1 2x2x0,8+0,8 mm [-CE-] DoP: DoP0011 KEMA-KEUR {Batch}

Trade lengths

Minimal order

	(176128 / 8713182391492)	1 MTR
Ring à 100	(176128R X 100 / 8713182391577)	1 PCE
Reel à 500	(176128H X 500/20 / 8713182391560)	1 PCE



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Trade lengths

Minimal order

Reel à 2000	(176128H X 2000/50 / 8713182391553)	1 PCE
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Construction characteristics

Number of cores	4
Nominal cross section conductor	0,5 mm ²
Conductor material	Copper
Conductor surface	Bare
Conductor category	Class 1 = solid
Number of stranding elements	2
Number of conductors per group	2
Lay-up cable core	2
Material core insulation	Polyolefin
Core identification	Colour
Colour insulated wires	acc. Standard
Screen over stranding	Drainwire solid - Al/Polyester foil
Drainwire overall screen	Tinned Copperwire CuSn
Armouring	Yes
Material outer sheath	Flame Retardant Halogen Free Polyolefin Compound
Colour outer sheath	Green
Cable geometry	Round



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Properties

Reaction-to-fire according to EN 13501-6: Class	Cca
Reaction-to-fire according to EN 13501-6: Smoke production	s1
Reaction-to-fire according to EN 13501-6: Flaming droplets/particles	d1
Reaction-to-fire according to EN 13501-6: Acidity	a1
Halogen free	IEC 60754-1/2
UV resistant	Yes
UV protection	NEN EN 50289-4-17A
UV rating	Limited / Test duration 720 ≤ h <2000
Diameter conductor	0,8 mm
Insulation thickness	0,3 mm
Outer sheath thickness	0,8 mm
Outer diameter approx.	6,6 mm

Technical characteristics

Min. bending radius during installation	130 mm
Min. permitted bending radius, stationary application/permanent installation	100 mm
Tensile load	100 N
Permitted cable outer temperature during assembling/handling	-5 / 50 °C
Permitted cable outer temperature after assembling without vibration	-30 / 70 °C
Transportation and storage temperature	-30 / 70 °C



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Electrical characteristics

Operating voltage	300 V
Test voltage (AC, 1 min.)	1.500 V
Test voltage (DC, 1 min.)	2.000 V
Conductor DC resistance @ 20°C	37,5 Ohm/km
Insulation resistance	100 MOhm.km
Mutual capacitance (Nominal)	100 nF/km
Mutual capacitance (maximum)	120 nF/km
L/R ratio	40 µH/Ohm
Velocity factor	67 %
Inductance	0,7 mH/km
Capacitance unbalance (K9-K12)	500 pF/500m