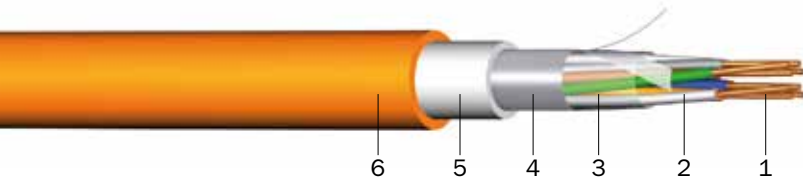


PRAFlaCom® + F

SHKFH-R + B2_{ca}s1d1a1

Halogen-free low frequency communication cable with aluminium screen and low heat release rate in case of fire

DESIGN



- 1 | Copper conductor, round solid (RE)
- 2 | Core insulation (halogen-free polymer compound), cores pair stranded
- 3 | Inner covering (dielectric, separating tape)
- 4 | Screen (plastic laminated aluminium tape with CuSn drain wire)
- 5 | Inner covering (halogen-free polymer compound)
- 6 | Sheath (halogen-free polymer compound, orange, UV resistant)

APPLICATION

This cable is intended for the transmission of analog and digital data and can be used in environments according to the External influences table below as long as the ends of the cable are thoroughly secured against the ingress of water and moisture and its sheath remains undamaged during installation and operation. The terminal equipment into which the cable is connected (e.g. distribution boxes, switchboards, couplers etc.) must comply with at least the same operating environment requirements as the cable itself. The cable is intended for fixed, universal installation – outside in air (the cable is not self-supporting) or underground, but also inside buildings such as hotels, hospitals, underground railways, airports and in other places where there is an increased concentration of people, etc. to protect people and technical building equipment in the event of fire if circuit integrity is not required. The cable releases little heat and smoke under fire. The cable is UV-resistant.

TECHNICAL DATA



Standard:
TP PRAKAB 05/01, ZP PRAKAB 01/17



Rated voltage:
100 V



Test voltage:
core/core: 1 kV/50 Hz



Temperature range:
laying temperature: min. -5 °C
operating temperature: -50 °C up to +90 °C
conductor temperature: max. +90 °C
short-circuit temperature: max. +250 °C/5 sec



Bending radius (min.):
10 x Ø of cable for Ø < 20 mm
12 x Ø of cable for Ø 20 mm to 40 mm
15 x Ø of cable for Ø > 40 mm



Cable operating environment:
See external influence table
ČSN 33 2000-5-51 ed. 3

Cable Installation:
Outside or inside
ČSN 33 2000-5-52 ed. 2, Annex NA



Core identification:
IEC 60189-2



Fire properties:
flame retardant:
EN 60332-1-2
halogen-free, non-corrosive combustion gases:
EN 60754-2
low smoke emission:
EN 61034-2
reduced flame propagation:
EN 60332-3-22
classification of the reaction to fire:
EN 13501-6



Certificate:
EZÚ Czech Republic

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External influence	Code	External influence	Code
AA – Ambient temperature (°C)	AA2 to AA8	AP – Seismic effects	AP1
AB – Atmospheric humidity	AB2 to AB8	AQ – Lighting	AQ1
AC – Altitude	AC1, AC2	AR – Movement of air	AR1 to AR3
AD – Presence of water	AD1 to AD7	AS – Wind	AS1, AS2
AE – Presence of foreign solid bodies or dust	AE1 to AE6	BA – Capability of persons	BA1 to BA5
AF – Presence of corrosive or polluting substances	AF1 to AF3	BC – Contact of persons with earth potential	BC1 to BC3
AG – Mechanical shock	AG1, AG2	BD – Conditions of evacuation in case of emergency	BD1 to BD4
AH – Vibrations	AH1, AH2	BE – Nature of processed or stored materials	BE1, BE2
AK – Presence of flora and/or moulds growth	AK1, AK2	CA – Construction materials	CA1, CA2
AL – Presence of fauna	AL1	CB – Building design	CB1 to CB3
AN – Solar radiation	AN1, AN2		

Note: The cable can be installed into these types of environment as long as the sheath of the cable remains undamaged during installation and operation. The terminal equipment into which the cable is connected must comply with at least the same operating environment requirements as the cable itself.

ELECTRICAL PARAMETERS

Conductor diameter	(mm)	0.5	0.8
Loop resistance, max.	(Ω/km)	195.6	75.0
Mutual capacitance, max. at 800 Hz	(nF/km)	120	120
Capacitance unbalance, max. at 800 Hz	(pF/500 m)	400	400
Insulation resistance, min.	(MΩ.km)	500	500

Number of pairs x nominal diameter (mm)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
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1 x 2 x 0.5	6.0	50	100 R, 1,000 D
2 x 2 x 0.5	8.1	75	100 R, 1,000 D
3 x 2 x 0.5	8.4	85	100 R, 1,000 D
4 x 2 x 0.5	9.1	100	100 R, 1,000 D
5 x 2 x 0.5	9.9	115	100 R, 1,000 D
10 x 2 x 0.5	12.8	185	1,000 D
1 x 2 x 0.8	7.1	70	100 R, 1,000 D
2 x 2 x 0.8	9.5	110	100 R, 1,000 D
3 x 2 x 0.8	9.9	130	100 R, 1,000 D
4 x 2 x 0.8	10.9	160	100 R, 1,000 D
5 x 2 x 0.8	11.8	185	100 R, 1,000 D
10 x 2 x 0.8	14.9	300	1,000 D

Subject to technical changes.