TCEPKPFLE

Underground cable, screened, longitudinally water-proof

DESIGN

1 | Copper conductor, round solid (RE)
2 | Core insulation (foam skin PE), cores star quaded and quads stranded in groups, core stranding petrol jelly filled
3 | Inner covering (paper tape)
4 | Screen (copolymer laminated aluminium tape which is welded to the PE sheath)
5 | Sheath (PE black, UV resistant)

TECHNICAL DATA

Standard:
TP PRAKAB 08/97 – 3. edition

Rated voltage:
250 Veff

Test voltage:
core/core: 500 V/50 Hz
core/screen: 1 kV/50 Hz

Temperature range:
laying temperature: –10 °C to +60 °C
operating temperature: –40 °C up +70 °C

Bending radius (min.):
10 x ∅ of cable

Core identification:
EN 60708

Certificate:
EZÚ Czech Republic

APPLICATION

These waterproof cables are suitable for external telecommunications networks which are installed underground, in cable ducts or conduits.

ELECTRICAL PARAMETERS				
Conductor diameter	(mm)	0.4	0.6	0.8
Loop resistance, max.	(Ω/km)	300	133.2	73.6
Resistance difference.	(%)	–	–	2
Insulation resistance, min. /tested	(MΩ.km)	1,500/10,000	1,500/10,000	1,500/10,000
Mutual capacitance, average, max.	(nF/km)	42	42	42
Mutual capacitance, single value, max.	(nF/km)	49	49	49
Capacitance unbalance K_1, max.	(pF/500 m)	250	250	160
Specific attenuation at 16 kHz, max.	(dB/km)	6.7	3.8	3
Specific attenuation at 80 kHz, max.	(dB/km)	10	6	5

Number of quads x nominal diameter (mm)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
TCEPKPFLE			
1 x 4 x 0.4	8.6	60	2,000 D
3 x 4 x 0.4	10.4	90	2,000 D

PRAKAB PRAŽSKÁ KABELOVNA

TCEPKPFLE

Number of quads x nominal diameter (mm)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
TCEPKPFLE			
5 x 4 x 0.4	11.0	105	2,000 D
10 x 4 x 0.4	11.8	160	2,000 D
15 x 4 x 0.4	14.0	210	2,000 D
20 x 4 x 0.4	14.5	240	2,000 D
25 x 4 x 0.4	15.8	295	2,000 D
35 x 4 x 0.4	17.8	390	2,000 D
50 x 4 x 0.4	20.1	505	1,000 D
75 x 4 x 0.4	23.8	740	1,000 D
100 x 4 x 0.4	27.0	910	1,000 D
150 x 4 x 0.4	32.2	1,370	1,000 D
200 x 4 x 0.4	36.2	1,780	500 D
300 x 4 x 0.4	43.3	2,590	500 D
1 x 4 x 0.6	9.0	65	2,000 D
3 x 4 x 0.6	11.0	110	2,000 D
5 x 4 x 0.6	12.5	155	2,000 D
10 x 4 x 0.6	14.0	240	2,000 D
15 x 4 x 0.6	16.4	350	2,000 D
20 x 4 x 0.6	18.9	435	2,000 D
25 x 4 x 0.6	21.0	505	1,000 D
35 x 4 x 0.6	23.0	685	1,000 D
50 x 4 x 0.6	26.5	930	1,000 D
75 x 4 x 0.6	32.0	1,370	1,000 D
100 x 4 x 0.6	36.4	1,890	1,000 D
150 x 4 x 0.6	42.9	2,710	500 D
200 x 4 x 0.6	50.1	3,580	500 D
1 x 4 x 0.8	9.6	85	2,000 D
3 x 4 x 0.8	13.0	165	2,000 D
5 x 4 x 0.8	14.5	235	2,000 D
10 x 4 x 0.8	18.0	380	2,000 D
15 x 4 x 0.8	21.5	555	2,000 D
20 x 4 x 0.8	23.1	730	1,000 D
25 x 4 x 0.8	27.0	810	1,000 D
35 x 4 x 0.8	30.0	1,140	1,000 D
50 x 4 x 0.8	34.3	1,660	1,000 D
75 x 4 x 0.8	43.0	2,460	500 D
100 x 4 x 0.8	51.3	3,490	500 D

Subject to technical changes.