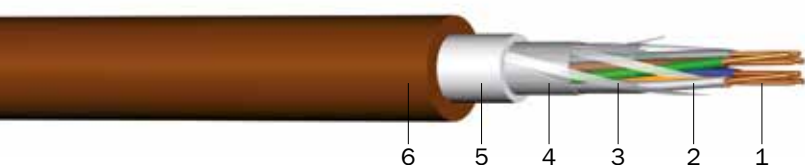


# PRAFlaGuard® F

P15-R – P90-R, PH120-R, P<sub>750</sub> 90-R, PS15 – PS90 B2<sub>ca</sub> s1d1a1

Halogen-free low frequency communication cable with aluminium screen and low heat release rate in case of fire with circuit integrity of whole cable installation according to ČSN 73 0895, STN 92 0205

## DESIGN



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

## APPLICATION

This cable is intended for the transmission of analog and digital data in premises where there is an increased risk of fire and a great concentration of people, if circuit integrity is required (circuit integrity is only maintained if these cables are installed with specified supporting elements). The cable releases little heat and smoke under fire. The cable is not UV-resistant.

## TECHNICAL DATA



**Standard:**  
TP PRAKAB 05/01



**Rated voltage:**  
100 V



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



**Temperature range:**  
laying temperature: min. -5 °C  
operating temperature: -30 °C up to +90 °C



**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



**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  
insulation integrity:  
IEC 60331-23 – 180 min.  
circuit integrity:  
ČSN 73 0895  
STN 92 0205  
classification of the reaction to fire:  
EN 13501-6



**Certificate:**  
EZÚ Czech Republic, TSÚS Slovakia

## 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

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Number of pairs x nominal diameter (mm)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
<b>PRAFlaGuard® F</b>			
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.