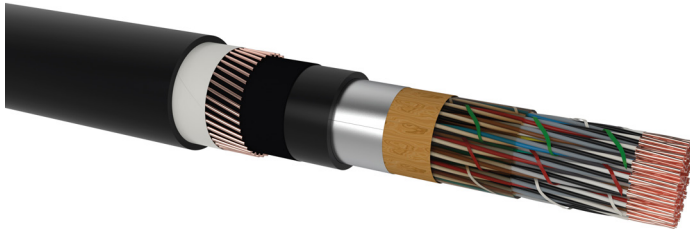


HvrQ

PE/PE Railway telecommunication cable, screened

DESIGN



- 1 | Copper conductor, round solid (RE)
- 2 | Core insulation (foam-skin PE), cores stranded in star quad and star quads are stranded in to the cable cores
- 3 | Space filling material (petroleum jelly)
- 4 | Inner covering (double paper layer)
- 5 | Belt insulation (PE laminated aluminium tape, longitudinally overlapping)
- 6 | Sheath (PE, black)
- 7 | Inner covering (impregnated paper)
- 8 | Screen (copper wires)
- 9 | Screen covering (PP or PE tape strand)
- 10 | Sheath (PE, black)

APPLICATION

Local railway telephone cables suitable for external telecommunication network which are installed underground in cable ducts or conduits.

TECHNICAL DATA



Standard:
P-2518/2002



Test voltage:
core / core 600 V_{eff} / 50 Hz
core / screen 2000 V_{eff} / 50 Hz



Temperature range:
laying temperature: min. -10 °C
operating temperature: -40 °C up to 70 °C



Bending radius (min.):
12 x Ø of cable



Core identification:
According to specification: P-2518/2002

Electrical Properties

Conductor nominal diameter	(mm)	0.8
Loop resistance, max.	(Ω/km)	73.2
Insulation resistance, min.	(GΩ.km)	5
Mutual capacity, max.	(nF/km)	42
Capacitance unbalances at 800 Hz - k ₁ 100% of value	(pF/300m)	800
Capacitance unbalances at 800 Hz - k ₁ 98% of value	(pF/300m)	400
Capacitance unbalances at 800 Hz - k _{9,12} 100% of value	(pF/300m)	300
Capacitance unbalances at 800 Hz - k _{9,12} 98% of value	(pF/300m)	100
Earth / core capacitance unbalances ea1,a2 100 % of value	(pF/300m)	800
Reduction factor at 50 Hz, 10 to 500 V/km	(-)	1 x 4 x 0.8 ≤ 0.8 5 x 4 x 0.8 ≤ 0.6 10 to 100 x 4 x 0.8 ≤ 0.5

HvrQ

PE/PE Railway telecommunication cable, screened

Number of cores x element x nominal diameter (mm)	Outer diameter (mm) appr.	Total weight (kg/km) appr.	Standard lengths / packing
HvrQ			
1 x 4 x 0.8	16.2	325	1000 D
5 x 4 x 0.8	22.5	626	1000 D
10 x 4 x 0.8	27.4	933	500 D, 1000 D
15 x 4 x 0.8	30.1	1079	500 D, 1000 D
25 x 4 x 0.8	36.2	1520	500 D, 1000 D
50 x 4 x 0.8	46.4	2505	500 D, 1000 D
75 x 4 x 0.8	54.1	3491	500 D
100 x 4 x 0.8	60.7	4441	500 D

Technical changes reserved. All figures are therefore without guarantee.

5.10.2023, 10:35