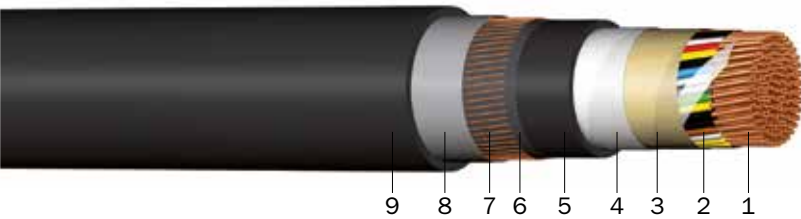


# HvrQ

## Local telephone buried cables

### 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. Cable core is filled with waterblocking petro jelly
- 3 | Inner covering (separated tape)
- 4 | Screen (copolymer laminated aluminium tape which is welded to the PE sheath)
- 5 | Sheath (PE black)
- 6 | Inner covering (impregnated paper tape)
- 7 | Screen (copper wires), number of wires according RF
- 8 | Screen covering (separated tape)
- 9 | Sheath (PE black)

### TECHNICAL DATA



**Standard:**  
P-2518/2002  
1. modification P-3197/2008



**Test voltage:**  
core/core:  $\geq 500$  Veff  
core/screen:  $\geq 2$  kVeff



**Temperature range:**  
laying temperature: min.  $-10$  °C  
operating temperature:  $-40$  °C to  $+70$  °C



**Bending radius (min.):**  
 $12 \times \varnothing$  of cable



**Core identification:**  
P-2518/2002, P-3197/2008

### APPLICATION

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

### ELECTRICAL PARAMETERS

Conductor nominal diameter	(mm)	0.8
Loop resistance, max.	( $\Omega$ /km)	73.2
Insulation resistance, min.	(G $\Omega$ .km)	5.0
Mutual capacity, max.	(nF/km)	42.0
Capacitive unbalances at 800 Hz	(pF/300 m)	
$k_1$ 100% of value		$\leq 800$
98% of value		$\leq 400$
Capacitive unbalances at 800 Hz	(pF/300 m)	
$k_{9-12}$ 100% of value		$\leq 300$
98% of value		$\leq 100$
Earth/core capacitive unbalances	(pF/300 m)	
$e_{a1, a2}$ 100% of value		$\leq 800$
Reduction factor at 50 Hz, 10 to 500 V/km	(-)	$1 \times 4 \times 0.8 r \leq 0.8$ $5 \times 4 \times 0.8 r \leq 0.6$ $10 \text{ to } 100 \times 4 \times 0.8 r \leq 0.5$

## HvrQ

Number of cores x nominal diameter (mm)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
HvrQ			
1 x 4 x 0.8	15.8	320	500 D, 1000 D
5 x 4 x 0.8	21.3	650	500 D, 1000 D
10 x 4 x 0.8	26.3	920	500 D, 1000 D
15 x 4 x 0.8	29.0	1,080	500 D, 1000 D
25 x 4 x 0.8	34.8	1,490	500 D, 1000 D
50 x 4 x 0.8	45.1	2,370	500 D, 1000 D
75 x 4 x 0.8	52.8	3,415	500 D, 1000 D
100 x 4 x 0.8	59.4	4,140	500 D, 1000 D

Subject to technical changes.