

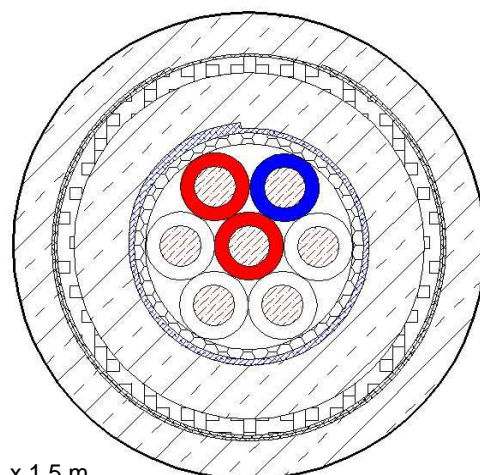


## BRQKA<sub>t</sub>QA<sub>h</sub>VQ n x 1 x 1.0; 1.5; 1.8; 2.0 or 2.5 mm

**PE-insulated signalling cable, unfilled, moisture barrier, protected against electrical disturbances, PE sheath**

**According to specification P-12440/2002**

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**Principle drawing**  
BRQKA<sub>t</sub>QA<sub>h</sub>VQ 7 x 1 x 1.5 m

### Application

Used for railway switch-over work.

### Colour Coding, Marking

Marking of wires in the cable:	Starting wire	red
	Direction wire	blue
	The other wires	natural

### Construction

<b>BRQKA<sub>t</sub>QA<sub>h</sub>VQ</b>	<b>AJ-2Y(L)2YAB2Y</b>
Conductor	copper, solid, 1.0 or 1.5 or 1.8 or 2.0 or 2.5 mm, soft annealed
Insulation	PE (2Y) with nominal thickness 0.5 mm
Twisting	core stranding in layers, binding of layers with yarn
Cable core wrapping	one or more layers of plastic tape
Moisture barrier	laminated sheath formed by an aluminium tape (0.15 mm thick) coated on one side with copolymer, and bonded with
Inner sheath	PE (2Y), black
Screen	in form of aluminium foil (0.5 mm thick) applied longitudinally
Armouring	two steel tapes 0.3 mm (2B0.3)
Outer sheath	PE (2Y), black



## BRQKAhVQ n x 1 x 1.0; 1.5; 1.8; 2.0 or 2.5 mm

### Mechanical and Thermal Properties

Temperature range	during operation	- 30°C to + 70°C
	during installation	- 5°C to + 70°C

### Electrical Properties

at 20°C ± 5°C

Conductor diameter	mm	1.0	1.5	1.8	2.0	2.5
Conductor resistance	Ω/km	≤ 23.39	≤ 10.03	≤ 7.28	≤ 5.9	≤ 3.9
Insulation resistance						
between one wire and all the other wires connected to screen	GΩxkm	≥ 10				
between armour and screen	GΩxkm	≥ 5				
Dielectric strength test at 50 Hz – 2 min						
core/core	V	2000				
core/screen	V	2000				
Dielectric strength test at 50 Hz – 10 min						
screen/protective layer	V	3000				
Reduction factor at 50 Hz, 10-250 V/km						
from 2 to 14 cores	r <sub>k</sub>	≤ 0.7				
from 21 to 37 cores	r <sub>k</sub>	≤ 0.6				
from 48 to 91 cores	r <sub>k</sub>	≤ 0.5				≤ 0.6



## BRQKAtQAhVQ n x 1 x 1.0; 1.5; 1.8; 2.0 or 2.5 mm

### Additional Properties

Dimension	Outer diameter	Cable weight net	Standard supply length	Drum size flange diameter	Transport weight gross	Copper No.		
	mm	kg/km	m	mm	kg/drum	kg/km		
<b>BRQKAtQAhVQ n x 1 x 1.0 mm</b>								
4x	16.0	370	1000	1200	495	32		
7x	17.2	430	1000	1400	620	55		
10 x	19.1	520	1000	1400	710	79		
14x	20.0	590	1000	1400	780	110		
21x	21.5	690	1000	1600	980	165		
30x	24.6	860	1000	1600	1150	236		
37x	25.8	960	1000	1600	1250	291		
48x	28.6	1190	1000	1800	1580	377		
61x	30.4	1360	1000	1800	1750	480		
75x	32.7	1570	1000	2000	2095	590		
91x	34.4	1780	1000	2000	2305	715		
<b>BRQKAtQAhVQ n x 1 x 1.5 mm</b>								
4x	17.2	433	1000	1400	483	71		
7x	18.8	533	1000	1400	583	124		
14x	22.4	763	1000	1600	813	248		
21x	24.1	944	1000	1600	994	372		
30x	27.9	1226	1000	1800	1276	531		
37x	29.3	1402	1000	1800	1452	654		
48x	32.3	1694	1000	2000	1744	849		
61x	34.5	2003	1000	2000	2053	1078		
75x	37.9	2369	1000	2200	2419	1326		
91x	40.0	2737	1000	2400	2787	1609		
<b>BRQKAtQAhVQ n x 1 x 2.5 mm</b>								
4x	19.7	627	1000	1400	817	197		
7x	21.9	827	1000	1600	1117	344		
14x	27.3	1328	1000	1600	1618	688		
21x	29.6	1738	1000	1800	2158	1031		
30x	34.5	2322	1000	2000	2882	1473		
37x	37.0	2740	1000	2200	3660	1817		
48x	41.1	3399	1000	2400	3449	2357		
61x	44.2	4125	1000	2400	4175	2995		
75x	49.1	4977	1000	2600	5027	3682		
91x	52.2	5855	1000	2600	5905	4467		

