

ARMoured TELEPHONE CABLES TWFS (PJ) WAW TYPE. SNCB STANDARD



Telecommunications cable



Impact resistance



Water blocked



Rodent resistance



ROHS compliant

STANDARDS

Construction: RN/SP 31-32-36-37, 2F07 (SNCB) and 2F08 (SNCB)

DESCRIPTION AND APPLICATION

Cables from 5 to 40 quads. Copper conductor of 0.6 or 0.8 mm diameter, insulated with "foam skin" polyethylene. Stranded in star quads, filled with petroleum PE jelly and armoured with steel tapes. Grey PE outer sheath. Underground cables for installation in conduit or directly buried.

CONSTRUCTION

- **Conductors:** Annealed copper, diameters 0.6 and 0.8 mm.
- **Insulation:** Double layer "foam skin" PE.
- **Cabling elements:** Star quads.
- **Lay-up:** Stranded in units of 5 or 10 quads.
- **Filling compound:** Petroleum PE jelly.
- **Core wrapping:** Longitudinal dielectric tape applied with overlap.
- **Inner sheath:** LDPE.
- **Armour:** Two 0.2 mm thick helically applied steel tapes + 2 copper wires of 0.8 mm.
- **Outer sheath:** UV resistant grey PE.
- **Sheath marking:** The outer sheath shall be marked at regular intervals with the following information:
 - *Name of Manufacturer / year / Length markings*
 - *Other type of markings is also possible according to the customer*



All drawings, designs, specifications and particulars of weights, dimensions, etc. in this documentation are only indicative and must not be considered contractual.

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ELECTRICAL CHARACTERISTICS (20°C)	0.6 mm	0.8 mm
<i>Conductor resistance (Ω/km)</i>		
• Average	63,9	35,3
• Maximum	66,6	36,8
<i>Resistance unbalance (%) $100 \times (R_{max} - R_{min}) / (R_{min} + R_{max})$</i>	1,0 %	2,0 %
<i>Minimum insulation resistance (MΩxkm, 15°C, 500 V)</i>	5000	5000
<i>Mutual capacitance (nF/km, 800 Hz)</i>		
• Average	42	38,5
• Maximum	49	42
<i>Capacitance unbalance (pF/500m, 800 Hz)</i>		
Pair-pair of same quad		
• Maximum	600	300
• 95 % values	400	200
Pair-pair of different quad		
• Maximum	250	150
• 95 % values	150	100
Pair-earth		
• Maximum	1700	-
• Maximum average	1000	-
<i>Dielectric strength (Vdc, 3 s)</i>		
conductor – conductor	1000	1000
conductor - screen	2000	2000

MECHANICAL CHARACTERISTICS

Temperature range: from -25° C to +70° C

Minimum bending radius: 15 x R_{cable}

DIMENSIONS AND WEIGHTS

Diameter : 0.60 mm					
Code	# Quad.	cable (mm)	Weight approx. (kg/km)	Length (m)	Drum

EA6MOJR60000502N	5	18.7	422	1000	A2
EA6MOJR60001002N	10	19.7	537	1000	A2
EA6MOJR80001502N	15	21.7	667	1000	A4
EA6MOJR60002002N	20	24.1	812	1000	A4
EA6MOJR60002502N	25	25.4	916	1000	A4
EA6MOJR60003002N	30	27.5	1039	1000	A4
EA6MOJR60004002N	40	30.2	1262	1000	A6

Diameter : 0.80 mm					
Code	# Quad.	cable (mm)	Weight approx. (kg/km)	Length (m)	Drum

EA6MOJR80000202N	2	17.4	376	1000	A4
EA6MOJR80000502N	5	21.6	555	1000	A4
EA6MOJR80001502N	15	27.3	944	1000	A4
EA6MOJR80002502N	25	32.2	1389	1000	A6
EA6MOJR80003002N	30	34.2	1597	1000	A8

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