

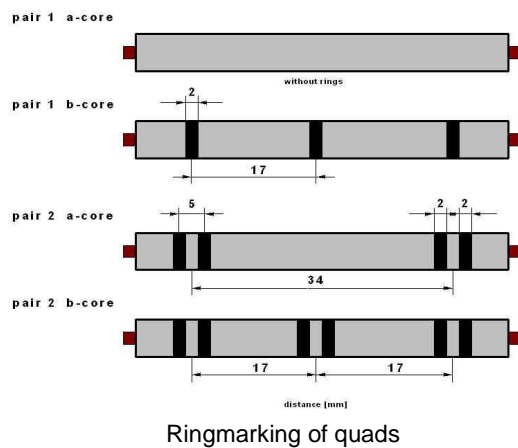


AJ-02YSF(L)2YDB2Y n x 2 x 0.6 / 0.8 mm STIII BD

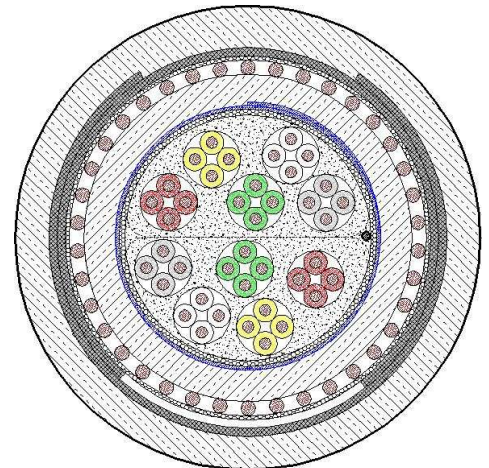
Foam-skin-PE-insulated TELDRAK®-railway station telecommunication cable, longitudinally watertight, protected against interferences

Based on DIN VDE 0816 part 1 and DIK 1.013.151

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Principle drawing
AJ-02YSF(L)2YDB2Y
20x2x0.8 STIII Bd



Application

Used in local networks, suitable for laying in ground or in ducts.

Colour Coding, Marking

Quad: Marking of cores of starquads with black rings according to DIN VDE 0816 part 1
 Basic unit: 5 main colours of starquad: red, green, grey, yellow, white. Marking units of basic and main units are marked with a red open helix, all others have a white helix

Construction

AJ-02YSF(L)2YDB2Y	
Conductor	copper, solid, 0.6 or 0.8 mm, soft annealed
Insulation	Foam-skin-PE (02YS)
Twisting	starquads in unit stranding, each unit consists of five quads
Filling	interstices filled with petroleum jelly filling compound, drop point > 70 °C
Cable core wrapping	one layer of swellable material
Moisture barrier	laminated sheath formed by an aluminium tape (0.20 mm thick) coated on at least one side with copolymer, and bonded with black PE sheath
Screen	of copper wires 0.9, 1.2, 1.4 or 1.8 mm, depending from required reduction factor
Armouring	two layers of galvanized steel tape
Sheath	PE (2Y), black



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n x 2 x 0.6 / 0.8 mm STIII BD

Mechanical and Thermal Properties

Admissible bending radius	≥ 10 x outer cable diameter	
Temperature range	during operation	- 50°C to + 70°C
	during installation	- 10°C to + 50°C
Peel-off strength Al-foil – PE-sheath	0.8 N/mm	

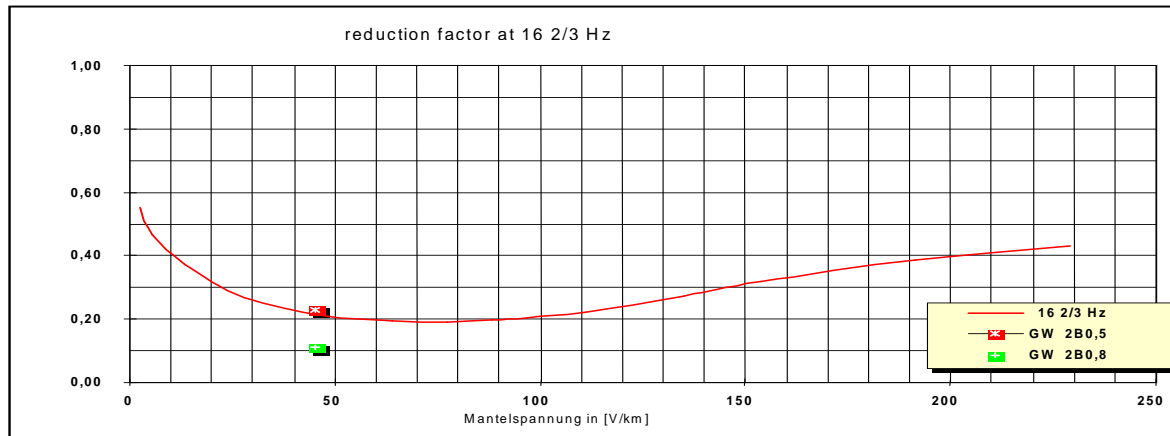
Electrical Properties

at 20°C ± 5°C

Conductor diameter	mm	0,6	0,8
Conductor loop resistance	Ω/km	≤ 130	≤ 73.2
Insulation resistance	GΩxkm	≥ 5	≥ 5
Mutual capacitance at 800 Hz			
100% of all values	nF/km	≤ 42	≤ 42
95% of all values	nF/km	≤ 40	≤ 40
80% of all values	nF/km	≤ 38	≤ 38
Capacitance unbalance at 800 Hz			
k ₁			
100% of all values	pF/300 m	≤ 800 ¹	≤ 800 ¹
98% of all values	pF/300 m	≤ 400	≤ 400
k ₉₋₁₂			
100% of all values	pF/300 m	≤ 300 ¹	≤ 300 ¹
98% of all values	pF/300 m	≤ 100	≤ 100
Test voltage – 2 min			
core/core	V _{eff}	500	500
core/screen	V _{eff}	2000	2000
¹ valid for at least 2 quads			

Typical Reduction Factor Curve

AJ-02YSF(L)2YDB2Y 20x2x0.8 STIII BD





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Additional Properties

Dimension	Outer diameter	Cable weight net	Standard supply length	Drum size	Transport weight gross	Copper content	Tensile strength max.	Fireload
	mm	kg/km	m	KTG	kg/drum	kg/km	N	MJ/m
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10x	24.5	1130	1000	181	1530	429	2650	11
20x	29.0	1570	1000	201	2190	631	3700	14
30x	33.0	1990	1000	201	2610	859	4800	18
40x	36.5	2440	1000	221	3200	1095	5900	23
50x	39.0	2730	1000	221	3490	1227	6000	27
70x	45.5	3900	1000	251	4770	1609	7600	35
100x	51.0	4910	500	221	3165	2176	9550	44
150x	60.5	6220	500	251	4010	2679	10850	64
200x	68.0	7530	500	251	4665	3287	12050	82