

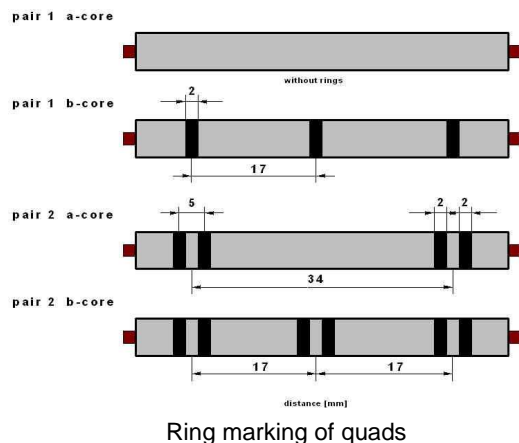


A-02YSF(L)2Y n x 2 x 0.6 / 0.8 mm STIII BD

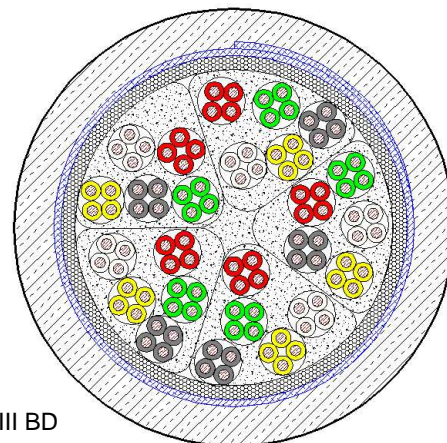
Foam-Skin-PE-insulated TELDRAK® - telecommunication cable, for railway stations, longitudinally watertight, moisture barrier

According to German Railway specification Dlk 1.013.151y

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to technical progress



Principle drawing
A-02YSF(L)2Y 50x2x0.8 STIII BD



Application

Use in local and work's telephone networks as subscriber cable.

Colour Coding, Marking

- Quads:** Marking of cores of star quads with black rings according to DIN VDE 0816 part 1
- Basic unit:** 5 main colours of star quad: 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
- Sheath:** Icon „telephone“ and meter marking in white sintered print.

Construction

A-02YSF(L)2Y	
Conductor	copper, solid, 0.6 or 0.8 mm, soft annealed
Insulation	Foam-Skin-PE (02YS)
Twisting	star quads in unit stranding
Filling	with filling compound
Cable core wrapping	one or more layers of swellable material
Moisture barrier	laminated sheath formed by an aluminium tape (0.15 mm thick) coated on at least one side with copolymer, and bonded with
Sheath	PE (2Y), black



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Mechanical and Thermal Properties

Admissible bending radius	with tension	≥ 10 x outer cable diameter
	without tension	≥ 5 x outer cable diameter
Temperature range	during operation	- 40°C to + 70°C
	during installation	- 20°C to + 50°C

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	
Mutual capacitance at 800 Hz	nF/km	< 42	
Capacitance unbalance at 800 Hz			
k_1			
100% of all values	pF/300 m	< 800 ¹	
98% of all values	pF/300 m	< 400	
k_{9-12}			
100% of all values	pF/300 m	< 300 ¹	
98% of all values	pF/300 m	< 100	
Attenuation at 800 Hz	dB/km	< 0-91	< 0-69
Dielectric strength test voltage r.m.s.			
core/core	V	500 ²	
core/screen	V	2000	
Operating peak voltage	V	225	
¹ valid for at least 2 quads			
² cables with > 100 pairs will not be checked core/core			



A-02YSF(L)2Y n x 2 x 0.6 / 0.8 mm St III BD

Additional Properties

Dimension	Outer diameter	Cable weight net	Standard supply length	Drum size	Transport weight gross	Copper content	Tensile strength max.	Fire load
	mm	kg/km	m	KTG	kg/drum	kg/km	N	MJ/m
A-02YSF(L)2Y n x 2 x 0.6 St III Bd								
6	11.0	114	1000	101	185	34	190	3
10	13.0	161	1000	121	305	57	310	4
20	16.0	263	1000	121	407	113	610	6
30	18.0	359	1000	121	503	170	910	8
40	21.0	449	1000	161	729	226	1180	10
50	22.0	539	1000	161	819	283	1460	12
70	26.0	733	1000	161	1013	396	1970	15
100	30.0	991	1000	201	1541	565	2710	20
150	36.0	1431	1000	221	2141	848	3820	28
200	40.0	1847	1000	251	2747	1131	4880	35
A-02YSF(L)2Y n x 2 x 0.8 St III Bd								
10	15.5	243	1000	121	387	101	550	6
20	20.0	405	1000	141	580	201	1070	9
30	23.5	564	1000	161	844	302	1570	12
40	26.0	738	1000	161	1018	402	2030	15
50	28.5	891	1000	181	1271	503	2490	18
70	33.0	1194	1000	201	1744	704	3360	23
100	38.0	1637	1000	221	2347	1005	4500	31
150	46.5	2445	1000	251	3345	1508	6170	46
200	53.0	3181	1000	281	4356	2011	7640	59