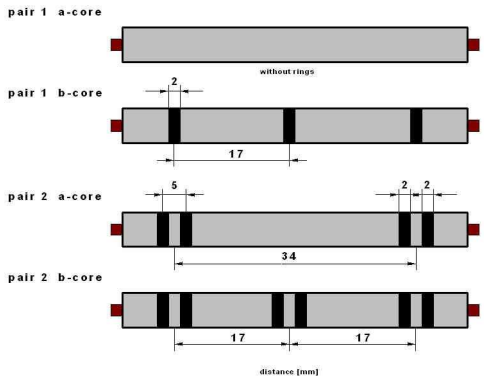
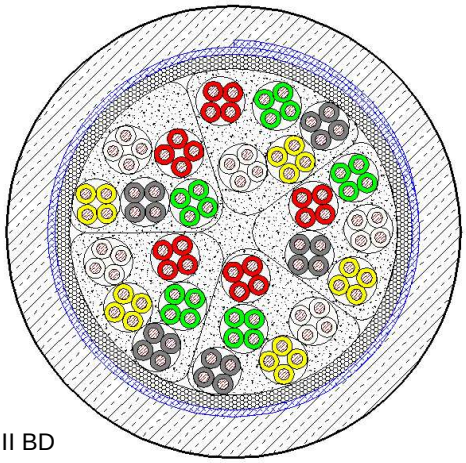
A-02YSOF(L)2Y, ...B2Y
n x 2 x 0.6 / 0.8 mm STIII BD

Foam-skin-PE-insulated telephone cable with special filling compound, moisture barrier, unit stranded

Based on DIN VDE 0816 part 1



Ring marking of quads



Principle drawing
A-02YSOF(L)2Y 50x2x0.6 STIII BD

Application

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

Colour Coding, Marking

Quad: 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.

Construction

A-02YSOF(L)2Y	
Conductor	copper, solid , 0.6 or 0.8 mm, soft annealed
Insulation	Foam-skin-PE (02YS)
Twisting	star quads in unit stranding (SZ-stranding)
Filling	longitudinally watertight through special filling compound
Cable core wrapping	of water 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
Outer sheath	PE (2Y), black
A-02YSOF(L)2YB2Y	construction as described before, additionally:
Armouring	two layers galvanized steel tape 2B0.5
Outer sheath	PE (2Y), black

A-02YSOF(L)2Y, ...B2Y
n x 2 x 0.6 / 0.8 mm STIII BD

Mechanical and Thermal Properties

Admissible bending radius		≥ 15 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	
Mutual capacitance at 800 Hz			
100% of all values	nF/km	< 52	< 55
95% of all values	nF/km	< 50	< 53
80% of all values	nF/km	< 48	< 50
Capacitance unbalance at 800 Hz			
k_1			
100% of all values	pF/300m	< 800 *	
98% of all values	pF/300m	< 400	
* valid for at least 2 quads			
Test voltage at 50 Hz – 2 min			
core/core	V_{eff}	500	
core/screen	V_{eff}	2000	

A-02YSOF(L)2Y, ...B2Y
n x 2 x 0.6 / 0.8 mm STIII BD

Additional Properties

Dimension	Outer diameter	Cable weight net	Standard supply length	Drum size	Transport weight gross	Copper content	Tensile strength * max.	
	mm	kg/km	m	KTG	kg/reel	kg/km	N	
A-02YSOF(L)2Y n x 2 x 0.6 STIII BD								
10 x	11.5	140	2000	121	424	57	280	
20 x	13.9	220	2000	121	584	114	560	
30 x	15.9	300	2000	141	775	170	840	
40 x	17.4	380	2000	161	1040	226	1130	
50 x	19.1	450	2000	161	1180	283	1410	
70 x	20.2	520	2000	161	1320	396	1970	
100 x	25.0	820	2000	201	2190	565	2820	
200 x	34.2	1560	2000	250	3995	1131	5480	
250 x	37.8	1940	2000	250	4755	1414	6580	
300 x	41.0	2290	2000	281	5755	1696	7640	
400 x	47.0	3020	1000	250	3895	2262	9530	
500 x	52.0	3700	1000	250	4575	2827	11270	
600 x	56.1	4400	1000	281	5575	3392	12800	
700 x	60.4	5090	666	250	4265	3959	14130	
800 x	64.5	5810	666	250	4744	4523	15250	
A-02YSOF(L)2Y n x 2 x 0.8 STIII BD								
10 x	13.4	210	2000	121	564	101	500	
20 x	16.8	340	2000	141	855	201	1000	
30 x	19.2	470	2000	161	1220	302	1500	
40 x	21.4	600	2000	181	1580	403	2010	
50 x	23.4	730	2000	181	1840	503	2510	
70 x	26.0	850	2000	201	2250	704	3510	
100 x	31.4	1350	2000	221	3410	1005	5000	
200 x	44.0	2650	1000	221	3360	2011	8800	
300 x	55.0	3900	500	221	2660	3016	11530	
500 x	69.6	6550	333	281	3360	5024	15640	
A-02YSOF(L)2YB2Y n x 2 x 0.8 STIII BD (2B0.5)								
100 x	46.0	2970	1000	250	3845	1005		

*) with pulling eye