

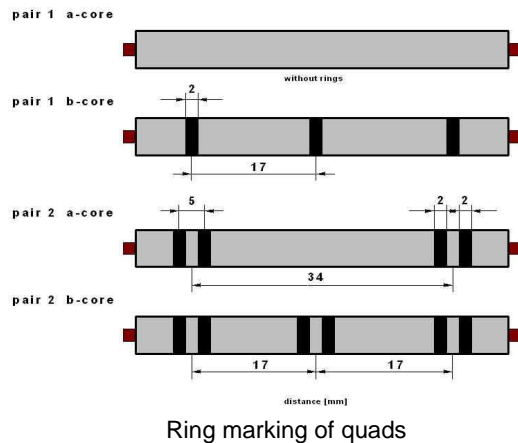


A-2YF(L)2Y, A-2YF(L)2YB2Y n x 2 x 0.4 / 0.6 / 0.8 mm STIII BD

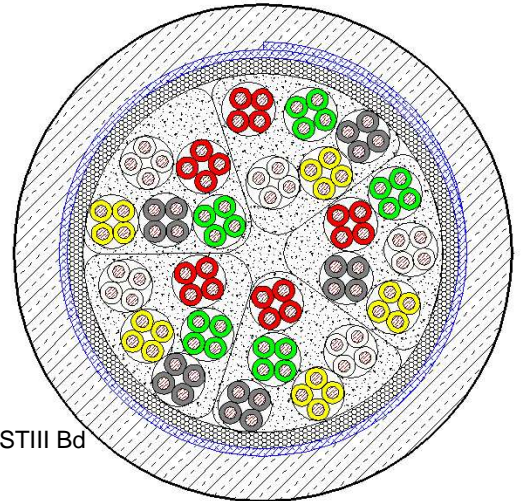
PE-insulated TELDRAK®-telecommunication cable, longitudinally watertight through filling compound, with laminated sheath

According to specification DIN VDE 0816 part 1, edition 02/1988

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Principle drawing
A-2YF(L)2Y 50x2x0.8 STIII Bd



Application

Telecommunication cable for local networks and PABX, used for telecommunication and data transmission. Suitable for laying in ground or in cable 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. 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-2YF(L)2Y	
Conductor	copper, solid, 0.4, 0.6 or 0.8 mm, soft annealed
Insulation	PE (2Y)
Twisting	star quads in unit stranding (SZ-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
A-2YF(L)2YB2Y	Construction as described before, additionally:
Armouring	armouring as protection against rodent attacks 1B0.3 or
	armouring as mechanical protection 1B0.5 or
	armouring as protection against inductive interference according to DIN VDE 0816 part 1 or
	armouring following specific customer requirements
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
Peel-off strength Al-foil – PE-sheath		0.8 N/mm

Electrical Properties

at 20°C ± 5°C

Conductor diameter	mm	0,4	0,6	0,8
Conductor loop resistance	Ω/km	≤ 300	≤ 130	≤ 73.2
Insulation resistance, at least ³	GΩxkm		≥ 1.5	
Mutual capacitance at 800 Hz ⁴				
100% of all values	nF/km	< 50	< 52	< 55
95% of all values ⁵	nF/km	< 48	< 50	< 53
80% of all values	nF/km	-	< 48	< 50
Capacitance unbalance ⁷ at 800 Hz				
k ₁				
100% of all values	pF/300m		< 800 ⁸	
98% of all values	pF/300m		< 400	
k ₉₋₁₂				
100% of all values	pF/300m		< 300 ⁸	
98% of all values	pF/300m		< 100	
Test voltage				
core/core	V _{eff}		500 ⁹	
core/screen	V _{eff}		2000	
Operating peak voltage	V	150	225	225
³ pls see section 6.2 of DIN VDE 0816, part 1				
⁴ pls see section 6.3 of DIN VDE 0816, part 1				
⁵ for cables up to 10 pairs, only the 100% value is valid				
⁶ pls see section 6.4 of DIN VDE 0816, part 1				
⁷ pls see section 6.5 of DIN VDE 0816, part 1				
⁸ valid for at least 2 quads				
⁹ cables with > 100 pairs will not be checked core/core				



A-2YF(L)2Y, A-2YF(L)2YB2Y n x 2 x 0.4 / 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.	Fire load
	mm	kg/km	m	KTG	kg/drum	kg/km	N	MJ/m
A-2YF(L)2Y n x 2 x 0.6 St III Bd								
2	8.0	70	1000	091	140	11	100	2.0
4	11.0	115	1000	091	185	23	200	3.0
6	11.5	140	1000	091	210	34	300	3.5
10	13.5	195	1000	101	295	57	500	4.5
20	16.5	320	1000	121	510	113	700	7.5
30	19.5	445	1000	121	635	170	950	9.0
40	21.5	560	1000	141	785	226	1200	12.0
50	23.5	675	1000	141	900	283	1500	14.0
70	27.0	920	1000	161	1270	396	2000	18.0
100	31.5	1245	1000	161	1595	565	2800	24.0
150	37.5	1705	1000	201	2355	848	4100	35.0
200	42.5	2220	1000	221	3050	1131	5200	45.0
250	47.0	2650	1000	250	3500	1414	6500	56.0
300	51.0	3150	1000	281	4350	1696	7800	65.0
500	66.0	4920	500	250	3295	2828	14100	117.0
600	71.0	5840	500	250	3749	3393	16900	137.0
800	81.0	7690	500	281	4960	4524	22600	180.0
A-2YF(L)2Y n x 2 x 0.8 St III Bd								
2	9.0	85	1000	091	155	20	135	2.5
4	12.5	160	1000	091	230	40	270	4.0
6	13.0	190	1000	091	260	60	400	5.0
10	15.5	280	1000	121	470	101	600	6.5
20	20.0	485	1000	121	675	201	1000	10.0
30	23.0	680	1000	161	1030	302	1500	13.0
40	26.5	860	1000	161	1210	402	2000	17.0
50	28.5	1075	1000	161	1425	503	2500	20.0
70	33.0	1445	1000	181	1900	704	3400	26.0
100	38.5	1890	1000	201	2540	1005	4600	36.0
150	46.5	2785	1000	250	3800	1508	6600	54.0
200	52.5	3615	1000	250	4630	2011	8500	69.0
250	58.0	4300	500	221	2900	2514	10600	87.0
300	63.0	5100	500	251	3500	3016	12700	103.0



A-2YF(L)2Y, A-2YF(L)2YB2Y n x 2 x 0.4 / 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.	Fire load
	mm	kg/km	m	KTG	kg/drum	kg/km	N	MJ/m
A-2YF(L)2YB2Y (1B0,3) n x 2 x 0.6 St III Bd								
2	12.0	160	2000	121	470	12	60	5
4	16.0	260	2000	141	700	23	130	7
6	15.0	270	2000	141	720	34	200	7,5
10	17.0	340	2000	161	960	57	330	9
20	20.0	490	2000	161	1260	114	630	13
30	22.0	600	2000	181	1580	170	940	15
40	25.0	750	2000	201	2050	227	1230	19
50	27.0	870	2000	201	2290	283	1510	21
70	31.0	1120	2000	221	2950	396	2050	27
100	34.0	1440	1000	201	1990	566	2820	34
A-2YF(L)2YB2Y (1B0,3) n x 2 x 0.8 St III Bd								
2	13.0	190	2000	121	524	21	120	5
4	17.0	320	2000	161	920	41	230	6
6	17.0	340	2000	161	960	61	340	6,5
10	20.0	430	2000	161	1140	101	570	9
20	24.0	660	2000	201	1870	202	1100	14
30	28.0	900	2000	201	2350	302	1610	20
40	31.0	1120	2000	221	2950	403	2070	23
50	33.0	1320	2000	250	3515	503	2530	27
100	44.0	2200	1000	221	2910	1006	4620	42
A-2YF(L)2YB2Y (2B0,5) n x 2 x 0.8 St III Bd								
10	21.0	730	2000	161	1740	101	550	11
20	26.0	1070	2000	201	2690	202		17
30	29.0	1320	2000	221	3350	302		20
50	34.0	1820	2000	250	4515	503		29
100	46.0	2970	1000	250	3845	1006		49
200	62.0	5250	500	250	3500	2011		94
300	74.0	7310	333	281	3610	3016		135