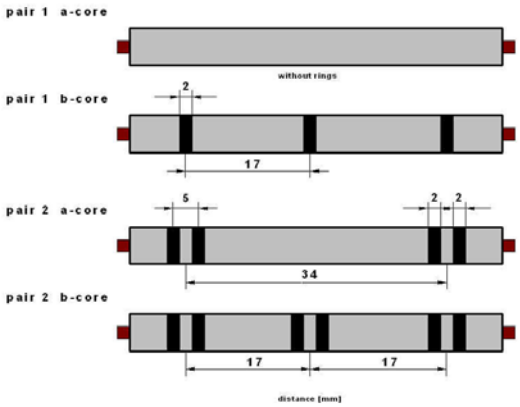
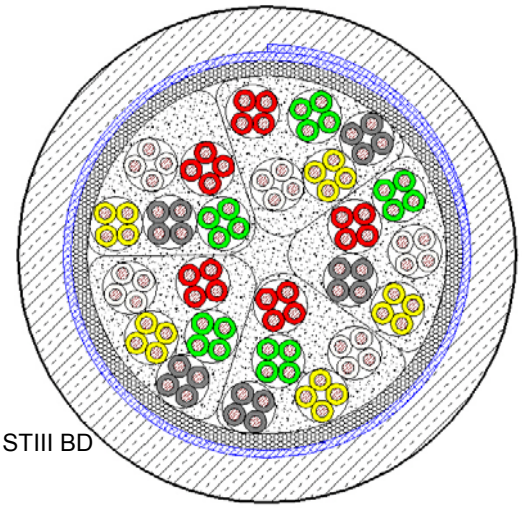
A-2YF(L)2Y, A-2YF(L)2YB2Y
n x 2 x 0.4 / 0.6 / 0.8 mm STIII BD

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

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



Ring marking of quads



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	one layer of galvanized steel tape 0.3 mm (1B0.3) or two layers of galvanized steel tape 0.5 mm (2B0.5)
Sheath	PE (2Y), black

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

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	7.5	60	2000	091	170	11	100	2
4	11.4	120	2000	121	390	23	200	4
6	11.2	130	2000	121	410	34	300	4.4
10	12.8	180	2000	121	510	57	500	5
20	16.1	280	2000	141	740	113	700	8
30	18.1	370	2000	161	1020	170	950	9
40	20.2	470	2000	161	1220	226	1200	11
50	21.9	560	2000	181	1500	283	1500	13
70	25.4	760	2000	201	2070	396	2000	18
100	29.3	1030	2000	221	3240	565	2800	23
150	35.8	1530	1000	201	2080	848	4100	35
200	40.4	1970	1000	221	2680	1131	5200	43
250	44.4	2410	500	181	1590	1414	6500	52
300	48.9	2890	500	201	2000	1696	7800	64
350	52.3	3320	500	221	2370	1980		72
400	55.4	3750	500	221	2590	2262		81
500	61.9	4680	500	250	3220	2828	14100	101
600	67.2	5560	500	250	3609	3393	16900	119
800	77.2	7360	500	281	4795	4524	22600	157
1000	86.1	9160				5655		195
A-2YF(L)2Y n x 2 x 0.8 St III BD								
2	8.0	68	2000	091	183	20	135	2
4	12.8	149	2000	121	442	40	270	3
6	12.9	170	2000	121	484	60	400	3
10	15.0	240	2000	141	655	101	600	5
20	19.2	412	2000	161	1104	201	1000	8
30	22.2	589	2000	181	1558	302	1500	12
40	25.2	767	2000	201	2084	402	2000	15
50	27.5	930	2000	221	2570	503	2500	18
70	31.1	1181	2000	221	3072	704	3400	21
100	36.5	1644	2000	281	4463	1005	4600	28
150	44.3	2433	1000	250	3308	1508	6600	43
200	51.0	3228	1000	250	4103	2011	8500	56
250	56.2	3957	1000	281	5132	2514	10600	68
300	61.7	4748	500	250	3249	3016	12700	81
350	66.1	5476	500	250	3613	3519		93
400	70.9	6281	500	250	4016	4022		106
500	78.2	7731	500	281	5041	5027		131

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								
6	18.0	560	2000	161	1400	61		7
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