

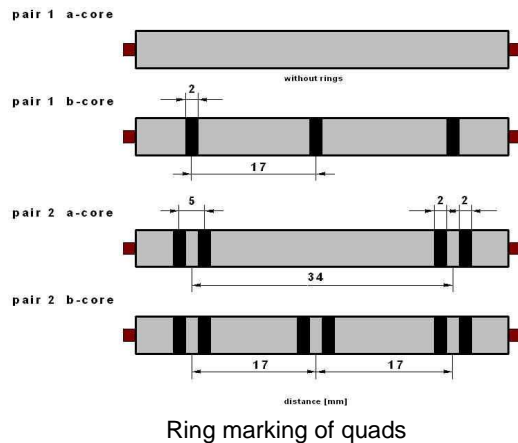


## A-2Y(L)2Y, A-2Y(L)2YB2Y n x 2 x 0.6 / 0.8 mm STIII BD

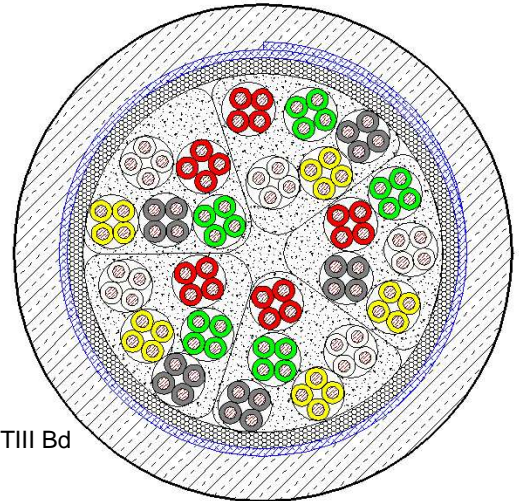
### PE-insulated TELDRAK® - telecommunication cable, with moisture barrier

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

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to technical progress



Principle drawing  
A-2Y(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

<b>A-2Y(L)2Y</b>	
Conductor	copper, solid, 0.6 or 0.8 mm, soft annealed
Insulation	PE (2Y)
Twisting	star quads in unit stranding (SZ-stranding)
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
<b>A-2Y(L)2YB2Y</b>	Construction as described before, additionally:
Armouring	armouring as protection against rodent attacks <b>or</b>
	armouring as mechanical protection <b>or</b>
	armouring as protection against inductive interference according to DIN VDE 0816 part 1 <b>or</b>
	armouring following specific customer requirements
Sheath	PE (2Y), black



## A-2Y(L)2Y, A-2Y(L)2YB2Y n x 2 x 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 <sup>3</sup>	GΩxkm		≥ 5	
Mutual capacitance at 800 Hz <sup>4</sup>				
100% of all values	nF/km	< 50	< 52	< 55
95% of all values <sup>5</sup>	nF/km	< 48	< 50	< 53
80% of all values	nF/km	-	< 48	< 50
Capacitance unbalance <sup>7</sup> at 800 Hz				
k <sub>1</sub>				
100% of all values	pF/300 m		< 800 <sup>8</sup>	
98% of all values	pF/300 m		< 400	
k <sub>9-12</sub>				
100% of all values	pF/300 m		< 300 <sup>8</sup>	
98% of all values	pF/300 m		< 100	
Test voltage				
core/core	V <sub>eff</sub>		500 <sup>9</sup>	
core/screen	V <sub>eff</sub>		2000	
Operating peak voltage	V	150	225	225
<sup>3</sup> pls see section 6.2 of DIN VDE 0816, part 1				
<sup>4</sup> pls see section 6.3 of DIN VDE 0816, part 1				
<sup>5</sup> for cables up to 10 pairs, only the 100% value is valid				
<sup>6</sup> pls see section 6.4 of DIN VDE 0816, part 1				
<sup>7</sup> pls see section 6.5 of DIN VDE 0816, part 1				
<sup>8</sup> valid for at least 2 quads				
<sup>9</sup> cables with > 100 pairs will not be checked core/core				



## A-2Y(L)2Y, A-2Y(L)2YB2Y 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.	Fireload
	mm	kg/km	m	KTG	kg/drum	kg/km	N	MJ/m
<b>A-2Y(L)2Y n x 2 x 0.6 St III BD</b>								
2	8.0	70	1000	091	145	11	100	2.0
4	10.0	115	1000	091	185	23	200	2.0
6	11.5	130	1000	091	200	34	300	2.5
10	13.0	180	1000	091	250	57	500	3.0
20	16.0	275	1000	101	375	113	700	4.0
30	18.0	365	1000	121	555	170	950	5.0
40	20.5	450	1000	121	650	226	1200	6.0
50	21.5	535	1000	141	760	283	1500	7.0
70	25.5	715	1000	161	1065	396	2000	8.5
100	28.0	970	1000	161	1320	565	2800	11.5
150	32.5	1374	1000	201	2024	848	4100	15.5
200	37.0	1795	1000	201	2445	1131	5200	20.0
250	39.0	1880	1000	221	2600	1414	6500	24.0
300	41.0	2200	1000	221	2920	1696	7800	29.0
<b>A-2Y(L)2Y n x 2 x 0.8 St III BD</b>								
2	8.0	70	1000	091	140	20	135	2.0
4	11.5	120	1000	091	190	40	270	2.5
6	13.0	175	1000	091	245	60	400	3.0
10	15.0	245	1000	101	345	101	600	4.0
20	18.5	400	1000	121	590	201	1000	5.5
30	21.0	550	1000	121	740	302	1500	7.0
40	23.0	660	1000	141	885	402	2000	8.5
50	26.0	860	1000	161	1210	503	2500	5.0
70	29.0	1140	1000	161	1490	704	3400	13.0
100	34.0	1580	1000	181	2035	1005	4600	16.5
150	41.5	2265	1000	221	3095	1508	6600	24.0
200	47.0	3000	1000	250	4015	2011	8500	29.5
250	50.0	3290	1000	250	4200	2514	10600	38.0
300	54.0	3900	1000	281	5100	3016	12700	46.0



## A-2Y(L)2Y, A-2Y(L)2YB2Y 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		
	mm	kg/km	m	KTG	kg/drum	kg/km		

#### A-2Y(L)2YB2Y n x 2 x 0.8 St III BD with armouring 2B0.3 based on VDE 0816 part 1

10	17.0	450	1000	121	594	101		
20	21.0	640	1000	121	784	202		
30	23.0	820	1000	141	995	302		
100	37.1	2010	1000	201	2560	1005		

#### A-2Y(L)2YB2Y n x 2 x 0.8 St III BD with armouring 2B0.5 according to VDE 0816 part 1

10	18.0	550	1000	121	694	101		
20	21.5	809	1000	141	984	201		
30	24.0	1020	1000	161	1300	302		