

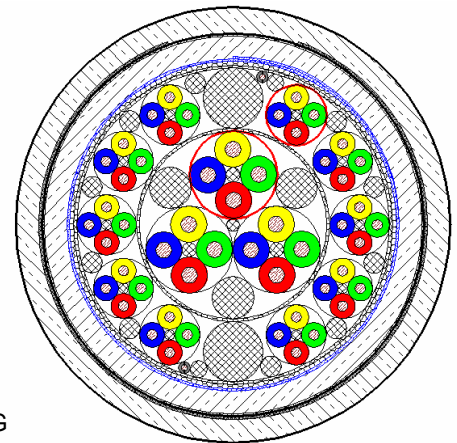


A-02YSTF(L)2YV, ...B2Y, ...(SR)2Y STI LG n x 4 x 1.4 / m x 4 x 0.9 mm

LONGDRAK® - Long-distance cable with moisture barrier

Preferred types according to specification DB Telematik TNP 02/05,
deviating dimensions only based on

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to technical progress.



Principle drawing
A-02YSTF(L)2Y(SR)2Y
3x4x1,4/10x4x0,9 STI LG

Application

Telecommunication cable (long distance), star quad twisted, used for telecommunication and data transmission.

Colour Coding, Marking

In quad	a-core	b-core	The counting quad in each layer (including center quad)
Pair 1	yellow	red	is marked with a red open helix.
Pair 2	green	blue	

Construction

1) A-02YSTF(L)2YV	
Conductor	copper, solid, 0.9 and 1.4 mm, soft annealed, conductor dimensions used in combination
Insulation	foam-skin-PE (02YS)
Twisting	star quads twisted in concentric layers
Pilot cores	copper, solid, 0.5 mm, perforated, two pilot cores diametrical positioned
Filling	interstices filled with water swellable material, dry filling
Cable core wrapping	one or more layers of water swellable material with overlap
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
2) A-02YSTF(L)2YB2Y	construction as position 1), additionally:
Armouring	one or two layers of galvanised steel tape 1B0.2 or 2B0.3
Outer sheath	PE (2Y), black
3) A-02YSTF(L)2Y(SR)2Y	construction as position 1), additionally:
Armouring	corrugated steel tape, coated on both sides with copolymer
Outer sheath	PE (2Y), black



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Mechanical and Thermal Properties

Temperature range	during operation	- 30°C to + 70°C
	during installation	- 5°C to + 50°C
Admissible bending radius		10 x outer cable diameter

Electrical Properties

at 20°C ± 5°C

Conductor diameter	mm	0.9	1.4
Conductor loop resistance	Ω/km	≤ 56.6	≤ 23.4
Insulation resistance	GΩxkm	≥ 10	
Mutual capacitance at 800 Hz	nF/km	≤ 34	≤ 36
Capacitance unbalance at 800 Hz			
k_1	pF/km	≤ 400	
k_{9-12}	pF/km	≤ 400	
$e_{a1/2}$	pF/km	≤ 1650	
Test voltage at 50 Hz			
conductor/conductor	V_{eff}	500	
conductor/screen	V_{eff}	2000	
Attenuation at 800 Hz	dB/km	0.62	≤ 0.4



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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-02YSTF(L)2YV n x 4 x 1,4 / m x 4 x 0,9 STI LG								
1 x / 7 x *)	25,0	500	1000	161	780	244	1250	11
2 x / 2 x	25,0	420	1000	161	700	178	910	9
2 x / 11 x *)	33,0	810	1000	201	1360	407	1950	17
3 x / 10 x	34,0	870	500	161	715	444	2130	18
3 x / 12 x *)	34,0	920	1000	201	1470	495	2370	18
3 x / 30 x *)	45,0	1620	500	201	1360	953	4070	28
4 x / 13 x *)	37,0	1050	1000	221	1760	582	2710	20
5 x / 16 x *)	39,0	1260	1000	221	1970	719	3280	23
8 x / 4 x	36,0	1030	1000	221	1740	599	2820	19
10 x / 8 x	39,0	1350	1000	221	2060	824	3760	23
11 x / 7 x	42,0	1430	1000	221	2140	860	3800	24
A-02YSTF(L)2YB2Y n x 4 x 1,4 / m x 4 x 0,9 STI LG								
1 x / 7 x 1B0,2	30,0	780	1000	181	1160	244	1210	17
2 x / 2 x 1B0,2	30,0	710	1000	181	1090	178	870	17
2 x / 11 x 1B0,2	38,0	1180	1000	221	1890	407	1870	25
3 x / 10 x 1B0,2	39,0	1250	500	181	1005	444	2020	26
3 x / 12 x 1B0,2	39,0	1300	1000	221	2010	495	2250	27
3 x / 30 x 1B0,2	50,0	2130	500	221	1775	953	3880	41
4 x / 13 x 1B0,2	41,0	1470	1000	221	2180	582	2590	30
5 x / 16 x 1B0,2	44,0	1710	500	201	1405	719	3110	34
8 x / 4 x 1B0,2	40,0	1440	1000	250	2315	599	2670	28
9 x / 7 x 1B0,2	44,0	1700	1000	250	2575	737	3180	33
11 x / 7 x 1B0,2	46,0	1900	1000	250	2745	860	3630	36
A-02YSTF(L)2Y(SR)2Y n x 4 x 1,4 / m x 4 x 0,9 STI LG								
1 x / 7 x	30,0	780	1000	181	1160	244	1190	17
2 x / 2 x	30,0	680	1000	181	1060	178	870	16
2 x / 11 x	39,0	1160	1000	221	1870	407	1850	24
3 x / 10 x	39,0	1220	500	181	990	444	2020	26
3 x / 12 x	39,0	1280	1000	221	1990	495	2250	26
3 x / 30 x	50,0	2090	500	221	1755	953	3830	40
4 x / 13 x	42,0	1450	1000	221	2160	582	2560	29
5 x / 16 x	45,0	1670	500	201	1385	719	3070	33
8 x / 4 x	41,0	1410	1000	250	2285	599	2670	28
10 x / 8 x	44,0	1770	1000	250	2645	824	3560	34
11 x / 7 x	47,0	1870	1000	250	2745	860	3590	36

*) Preferred types according to DB Telematik TNP 02/05