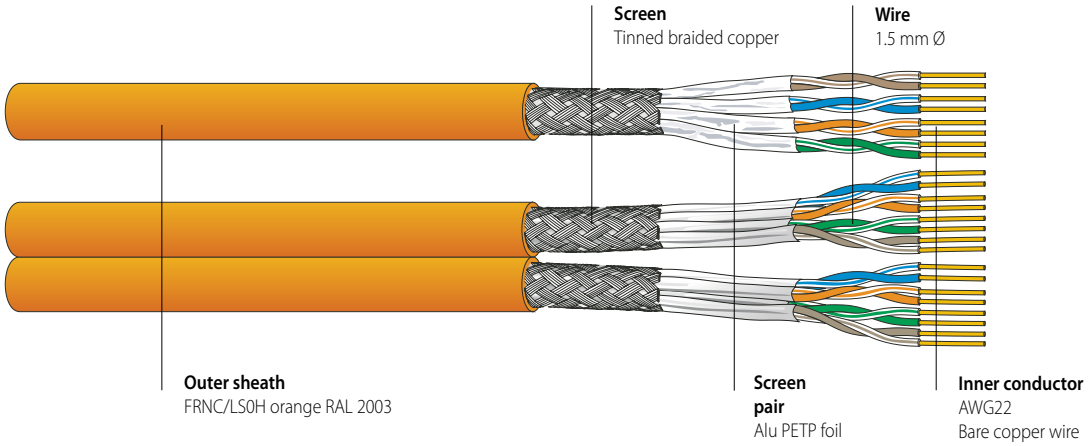
SHIELDED DATA CABLE

Data cable S/FTP Cat.7_A AWG22

CU 7702 4P / 2x4P F8



PRODUCT INFORMATION

FEATURES

Electrically and mechanically high-quality Cat.7_A data cable - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, IEC 61156-7, EN 50173-1 and prEN 50288-9-1.
Excellent shielding effect due to individually screened pairs and overall copper braid.
Easy identification of wires thanks to longitudinal colour markings.
Compatible with all current connecting hardware in accordance with EN 50173 and ISO/IEC 11801.

APPLICATIONS

Data cable for structured premises cabling.
For the transmission of digital and analogue voice, video and data signals.
Suitable for all ICT network applications up to class F_A applications (1000 MHz) in accordance with EN 50173-1 and ISO/IEC 11801 and for the transmission of broadband signals (such as cable TV) in accordance with IEC 15018.
Due to the increased wire section eminently suited for Power over Ethernet (PoE) / PoE+.

VERSIONS

Article No.	Dimension n x n x mm (AWG)	Sheath	Sheath Ø mm	Weight kg/km	Cu weight kg/km	Fire load kWh/m	Fire load MJ/m	PU
177400	4 x 2 x 0.62 (AWG22)	FRNC/LS0H [1]	7.8	65.1	34.9	0.18	0.65	1000 m drum
177390	2 x (4 x 2 x 0.62 (AWG22))	FRNC/LS0H [1]	7.8 x 16.4	131.0	69.8	0.36	1.30	500 m drum

[1] FRNC/LS0H = Flame Retardant Non Corrosive / Low Smoke Zero Halogen

DATWYLER

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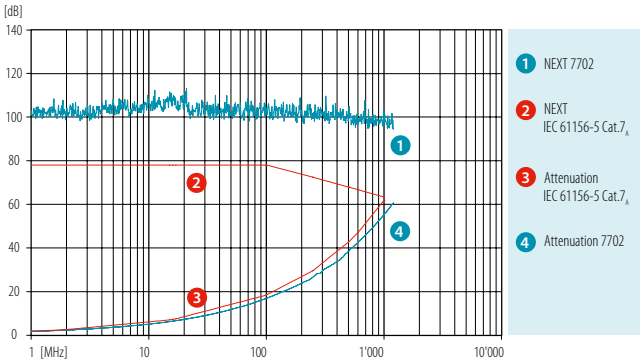
ELECTRICAL CHARACTERISTICS

CATEGORY				5e	6	6_A	7	CATV	7_A	
Frequency [MHz]	1	4	10	100	250	500	600	862	1000	1200
Attenuation [dB/100m]	1.7	3.4	5.3	16.9	27	40	42	53	56	62
NEXT [dB]	103	103	103	103	103	98	96	92	90	85
PS NEXT [dB]	100	100	100	100	100	95	93	89	87	82
ACR-N [dB]	101	100	98	86	76	58	54	39	34	23
PS-ACR-N [dB]	98	97	95	83	73	55	51	36	31	20
ACR-F [dB]	109	107	105	93	83	70	65	57	54	46
PS-ACR-F [dB]	106	104	102	90	80	67	62	54	51	43
Return loss [dB]	26	30	33	33	28	26	25	24	23	21

These performance data are typical measured values.

Loop resistance at 20° C:	116 Ω/km
Mutual capacitance	43 pF/m
Impedance at 100 MHz:	100 Ω ± 5 Ω
Transfer impedance at 1/10/30 MHz:	< 5/5/8 mΩ/m
Coupling attenuation (limit curve of critical state - IEC 61156):	≥ 85 dB
Near end unbalance att. LCL:	> 40 dB
Delay skew:	15 ns/100m
NVP:	76 %



			CU 7702 4P	CU 7702 2x4P F8
MECHANICAL CHARACTERISTICS	Bending radius (flat side)	during draw-in:	≥ 64 mm	≥ 64 mm
		permanently installed:	≥ 32 mm	≥ 32 mm
	Tensile strength:		≤ 120 N	≤ 240 N
	Crush resistance:		≥ 1000 N/10 cm	≥ 1000 N/10 cm
	Impact:		≥ 10 impacts	≥ 10 impacts
	Temperature range	during installation:	0° C to + 50° C	0° C to + 50° C
		in operation:	-20° C to + 60° C	-20° C to + 60° C
GENERAL CHARACTERISTICS	Wire colour code		white-blue/blue white-orange/orange white-green/green white-brown/brown (with longitudinal stripes) in accordance with IEC 60189 and IEC 60708	
	Imprint		DATWYLER «cable type» «additional text» «batch number» «meter marks»	
	Zero halogen non corrosive gases		IEC 60754-1/-2, EN 50267-2-1/-2-2 (VDE 0482-267-2-1/-2-2)	
	Flame propagation		IEC 60332-1-2, EN 60332-1-2 (VDE 0482-332-1-2)	
	Flame spread		IEC 60332-3-24, EN 60332-3-24	
	Smoke density		IEC 61034-1/-2, EN 61034-1/-2 (VDE 0482-1034-1/-2)	
	Power over Ethernet plus		IEEE 802.3at	
	EMC		shielded	
	Cat./Class		better than Cat.7_A / Class F_A	