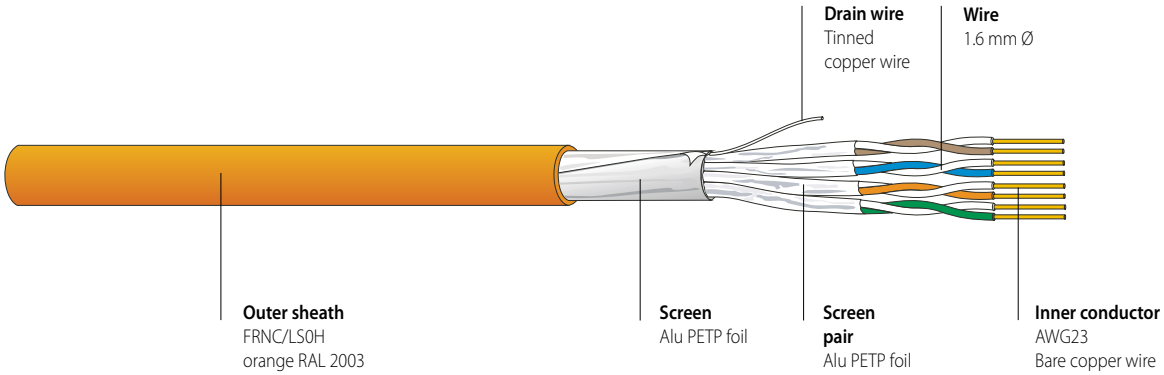
Data cable F/FTP Cat.7 AWG23

CU 7052 4P / 2x4P F8



PRODUCT INFORMATION

FEATURES

Electrically and mechanically high-quality Cat.7 data cable - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-4-1.
Excellent shielding effect due to individually screened pairs and overall foil screen.
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 applications (600 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.
Applicable 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
182911	4 x 2 x 0.57 (AWG23)	FRNC/LS0H [1]	7.4	60	31.1	0.16	0.57	1000 m drum
182912	2 x (4 x 2 x 0.57 (AWG23))	FRNC/LS0H [1]	7.4 x 15.6	120	62.2	0.32	1.14	500 m drum

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

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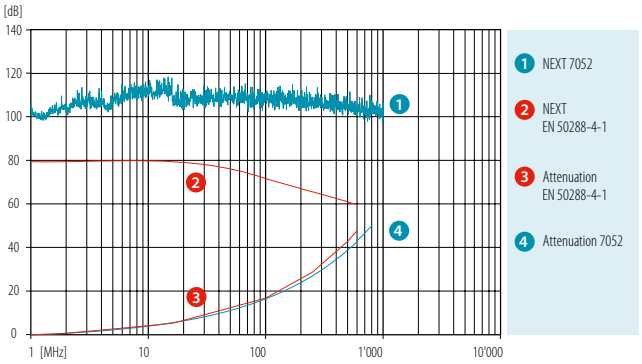
ELECTRICAL CHARACTERISTICS

CATEGORY				5e	6	6_A	7	
Frequency [MHz]	1	4	10	100	250	500	600	862
Attenuation [dB/100m]	1,9	3,7	5,6	17,9	28	41	46	54
NEXT [dB]	98	98	98	98	98	90	88	81
PS NEXT [dB]	95	95	95	95	95	87	85	78
ACR-N [dB]	96	94	92	80	70	56	42	27
PS-ACR-N [dB]	93	91	89	77	67	53	39	24
ACR-F [dB]	96	96	96	76	68	54	43	35
PS-ACR-F [dB]	93	93	93	73	64	51	40	32
Return loss [dB]	24	28	31	31	26	24	23	20

These performance data are typical measured values.

Loop resistance at 20° C:	140 Ω/km
Mutual capacitance:	42 pF/m
Impedance at 100 MHz:	100 Ω ±5 Ω
Coupling attenuation (limit curve of critical state - IEC 61156):	≥ 75 dB
Near end unbalance att. LCL:	> 40 dB
Delay Skew:	12 ns/100 m
NVP:	81 %



MECHANICAL CHARACTERISTICS

		CU 7052 4P	CU 7052 2x4P F8
Bending radius (flat side)	during draw-in:	≥ 60 mm	≥ 60 mm
	permanently installed:	≥ 30 mm	≥ 30 mm
Tensile strength:		≤ 110 N	≤ 220 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 white/orange white/green white/brown 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 50266-24 Cat. C, VDE 0482-266-2-4 Cat. C
Smoke density	IEC 61034-1/-2, EN 61034-1/-2 (EN 50268-1/-2), VDE 0482-1034-1/-2 (VDE 0482-268)-1/-2)
Power over Ethernet plus	IEEE 802.3at
EMC	shielded
Cat./Class	better than Cat.7 / Class F