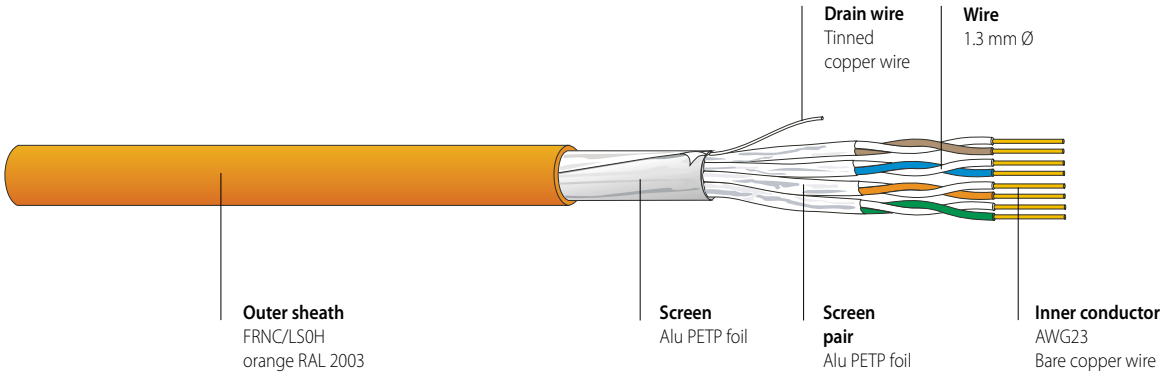
Data cable F/FTP Cat.6$_A$ AWG23

CU 6552 4P / 2x4P F8



PRODUCT INFORMATION

FEATURES

Electrically and mechanically high-quality Cat.6$_A$ data cable - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and prEN 50288-10-1.
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 E$_A$ applications (500 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.
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
191454	4 x 2 x 0.55 (AWG 23)	FRNC/LS0H [1)]	7.0	48.5	20.0	0.14	0.52	1000 m drum
191456	2 x (4 x 2 x 0.55 (AWG 23))	FRNC/LS0H [1)]	7.0 x 14.3	97.0	40.0	0.28	1.04	500 m drum

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

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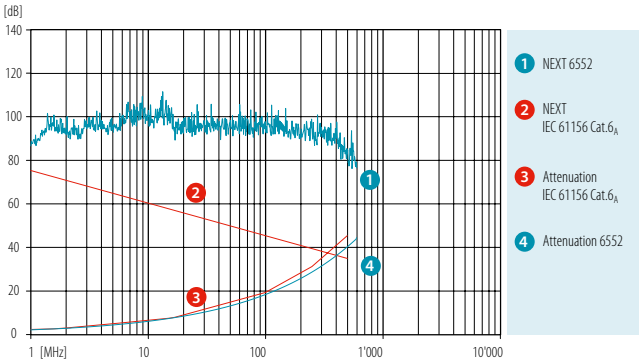
ELECTRICAL CHARACTERISTICS

CATEGORY				5e	6	6_A
Frequency [MHz]	1	4	10	100	250	500
Attenuation [dB/100m]	2.1	3.8	5.9	19.0	30	43
NEXT [dB]	93	93	93	93	83	75
PS NEXT [dB]	90	90	90	90	80	72
ACR-N [dB]	91	89	87	73	53	32
PS-ACR-N [dB]	88	86	84	70	50	29
ACR-F [dB]	96	96	96	74	56	33
PS-ACR-F [dB]	93	93	93	71	53	30
Return loss [dB]	26	28	30	30	27	21

These performance data are typical measured values.

Loop resistance at 20° C:	150 Ω/km
Mutual capacitance:	42 pF/m
Impedance at 100 MHz:	100 Ω ±5 Ω
Transfer impedance at 1/10/30 MHz:	< 50/100/200 mΩ/m
Coupling attenuation (limit curve of critical state - IEC 61156):	≥ 70 dB
Near end unbalance attenuation LCL:	> 40 dB
Delay Skew:	5 ns/100 m
NVP:	79 %



MECHANICAL CHARACTERISTICS

		CU 6552 4P	CU 6552 2x4P F8
Bending radius	during draw-in:	≥ 56 mm	≥ 56 mm
	permanently installed:	≥ 28 mm	≥ 28 mm
Tensile strength:		≤ 95 N	≤ 190 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 60332-3-24
Smoke density	IEC 61034-1/-2, EN 61034-1/-2 (VDE 0482-1034-1/-2)
Power over Ethernet	IEEE 802.3af
EMC	shielded
Cat./Class	Cat.6_A / Class E_A