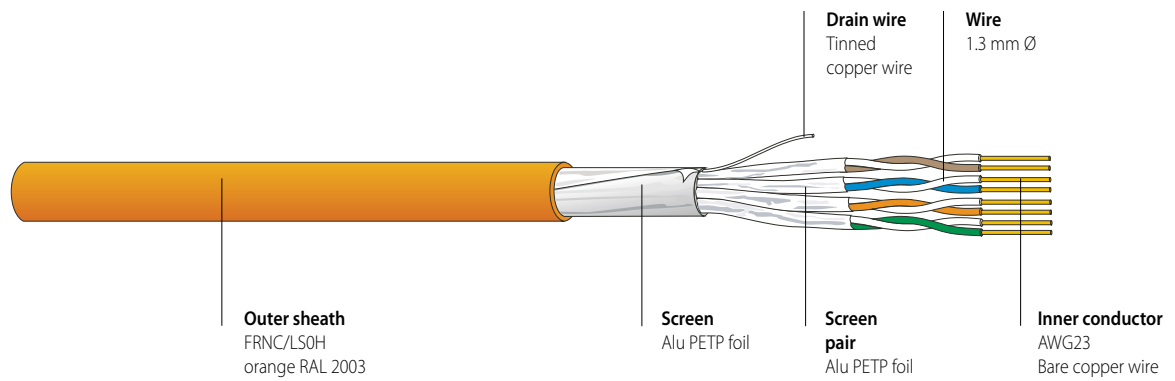
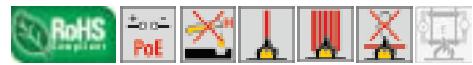


SHIELDED DATA CABLE

Data cable F/FTP Cat.6_A AWG23 CU 6552 4P



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 MJ/m	PU
191454	4 x 2 x 0.55 (AWG 23)	FRNC/LSOH ¹⁾	7.0	48.5	20.0	0.14 0.52	1000 m drum

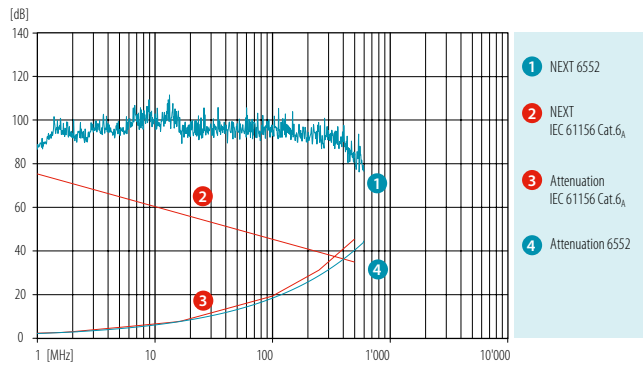
¹⁾ FRNC/LSOH = Flame Retardant Non Corrosive / Low Smoke Zero Halogen

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): ≥ 65 dB
 Near end unbalance attenuation LCL: > 40 dB
 Delay Skew: 5 ns/100 m
 NVP: 79 %



MECHANICAL CHARACTERISTICS

Bending radius during draw-in: ≥ 56 mm
 permanently installed: ≥ 28 mm
 Tensile strength: ≤ 95 N
 Crush resistance: ≥ 1000 N/10 cm
 Impact: ≥ 10 impacts
 Temperature range during installation: 0° C to + 50° C
 in operation: -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