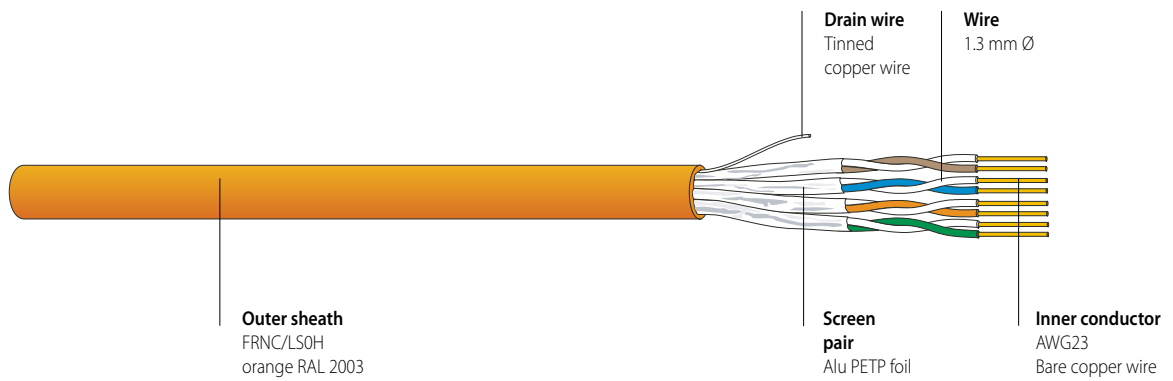


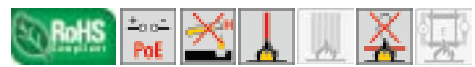
SHIELDED DATA CABLE

Data cable U/FTP Cat.6 AWG23

CU 6002 4P



PRODUCT INFORMATION



FEATURES

Electrically and mechanically high-quality Cat.6 data cable - fulfils the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-5-1.
Good shielding effect due to individually screened pairs.
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 applications (250 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.
Applicable for Power over Ethernet (PoE) / PoE+.

VERSIONS

Article No.	Dimension	Sheath	Sheath Ø	Weight	Cu weight	Fire load		PU
	n x n x mm (AWG)					kWh/m	MJ/m	
182936	4 x 2 x 0.55 (AWG 23)	FRNC/LS0H ¹⁾	7.0	47.8	20.0	0.15	0.55	1000 m drum

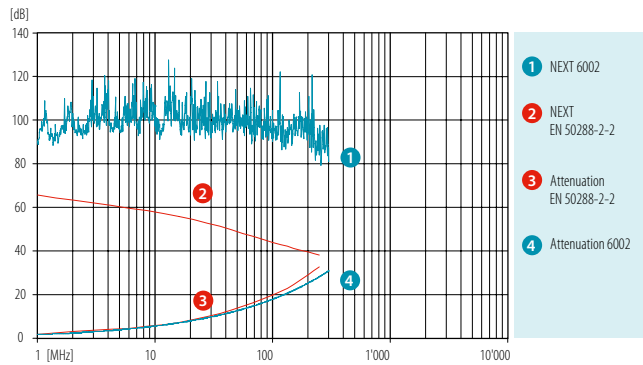
¹⁾ FRNC/LS0H = Flame Retardant Non Corrosive / Low Smoke Zero Halogen

ELECTRICAL CHARACTERISTICS

CATEGORY	5e			6	
Frequency [MHz]	1	4	10	100	250
Attenuation [dB/100m]	2.1	3.8	5.9	19.8	30
NEXT [dB]	93	93	93	93	83
PS NEXT [dB]	90	90	90	90	80
ACR-N [dB]	91	89	87	73	53
PS-ACR-N [dB]	88	86	84	70	50
ACR-F [dB]	96	96	96	74	56
PS-ACR-F [dB]	93	93	93	71	53
Return loss [dB]	26	28	30	30	27

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): ≥ 55 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
 Flame propagation IEC 60754-1/-2, EN 50267-2-1/-2-2 (VDE 0482-267-2-1/-2-2)
 Smoke density IEC 60332-1-2, EN 60332-1-2 (VDE 0482-332-1-2)
 Power over Ethernet IEC 61034-1/-2, EN 61034-1/-2 (VDE 0482-1034-1/-2)
 EMC IEEE 802.3af
 Cat./Class shielded Cat.6 / Class E