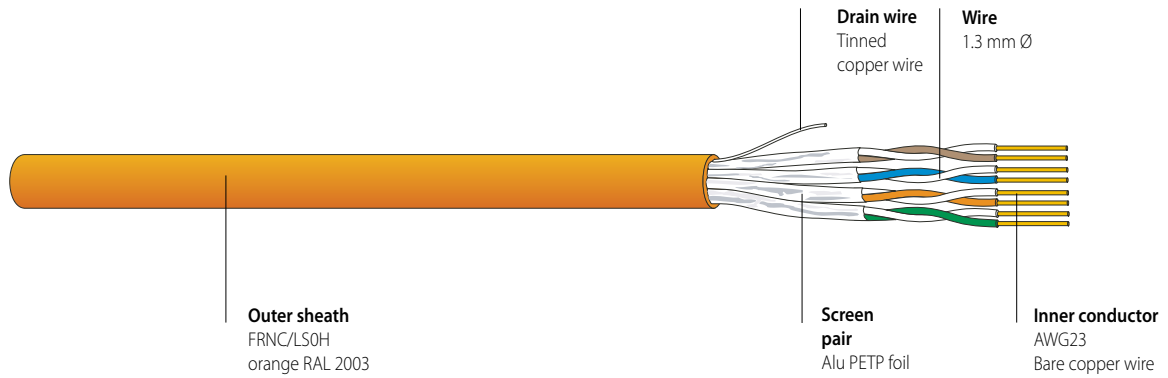


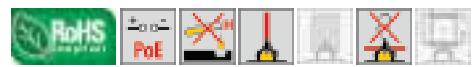
COPPER DATA CABLES, SHIELDED

Data cable U/FTP Cat.6_A AWG23

CU 6502 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. 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_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		PU
						kWh/m	MJ/m	
191453	4 x 2 x 0.55 (AWG 23)	FRNC/LSOH ¹⁾	7.0	47.8	20.0	0.15	0.55	1000 m drum
191455	2 x (4 x 2 x 0.55 (AWG 23))	FRNC/LSOH ¹⁾	7.0 x 14.3	95.6	40.0	0.30	1.10	500 m drum

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

Copper

Fibre Optics

Cabinets & Racks

Data Centre

Wireless

Multimedia

General Information

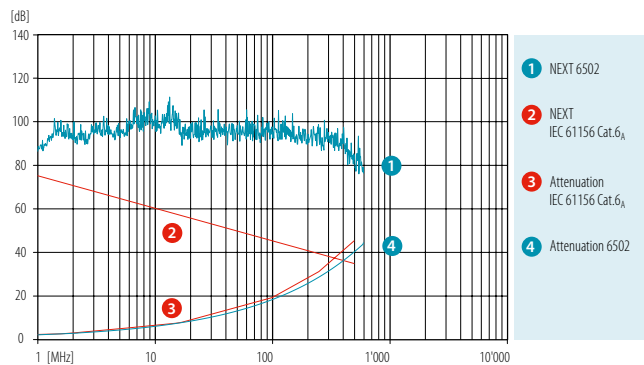
CU 6502 4P 0312/e

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): ≥ 55 dB
 Near end unbalance attenuation LCL: > 40 dB
 Delay Skew: 5 ns/100 m
 NVP: 79 %



MECHANICAL CHARACTERISTICS

Bending radius	during draw-in:	CU 6502 4P	CU 6502 2x4P F8
	permanently installed:	≥ 56 mm	≥ 56 mm
Tensile strength:		≥ 28 mm	≥ 28 mm
Crush resistance:		≤ 95 N	≤ 190 N
Impact:		≥ 1000 N/10 cm	≥ 1000 N/10 cm
Temperature range	during installation:	≥ 10 impacts	≥ 10 impacts
	in operation:	0° C to + 50° C	0° C to + 50° C
		-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)
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