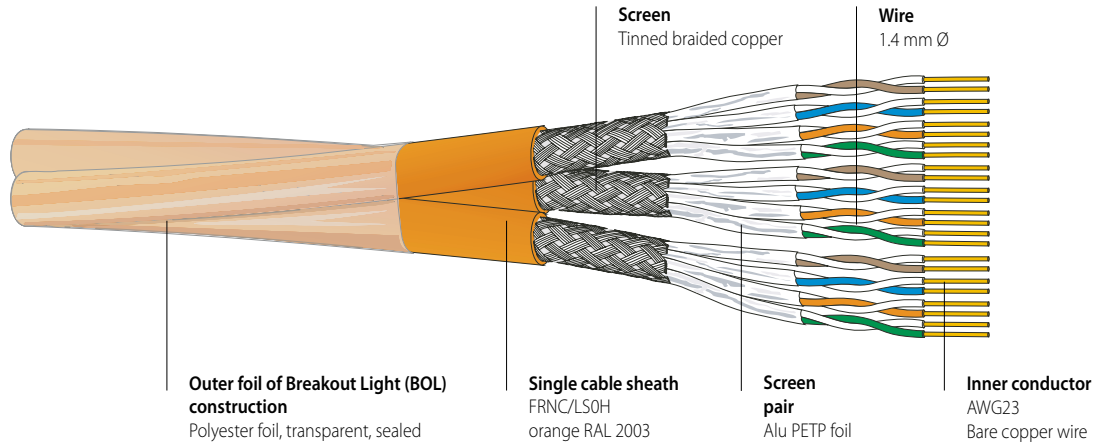
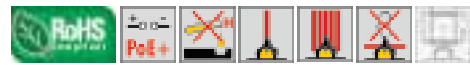


COPPER DATA CABLES, SHIELDED

Data cable S/FTP Cat.7 AWG23
CU 7002 nx4P Breakout Light (BOL)



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 copper braid.
 Easy handling, small outer diameter and reduced weight thanks to the Breakout Light construction with outer polyester foil instead of an overall cable sheath.
 Considerable shorter installation time due to the multi-cable construction
 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 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+.
 Especially suitable for Consolidation Points (e.g. in open-plan offices).

VERSIONS

Article No.	Number of elements 4P 1 x 4 x 0.57 (AWG 23)	Sheath	Sheath Ø mm	Weight kg/km	Cu weight kg/km	Fireload MJ/m	PU*
182976	3 x 4P	FRNC/LSOH ¹⁾	16.1	185	93.3	1.71	1000 m drum
182874	4 x 4P	FRNC/LSOH ¹⁾	18.0	245	124.4	2.28	1000 m drum
188486	6 x 4P	FRNC/LSOH ¹⁾	21.2	390	186.6	3.42	1000 m drum

* 500 m und 2000 m drums on request

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

Copper

Fibre Optics

Cabinets & Racks

Data Centre

Wireless

Multimedia

General Information

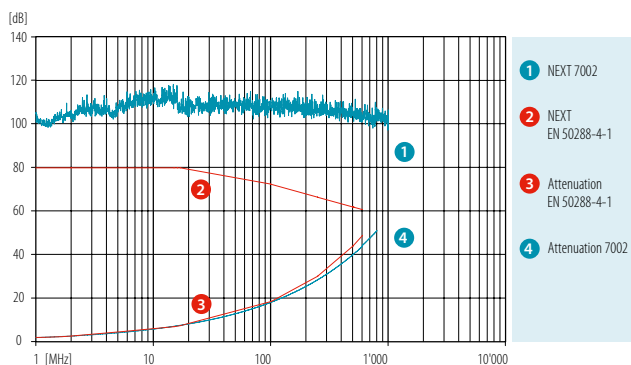
CU 7002-4P/nx4P BOL 0312/e

ELECTRICAL CHARACTERISTICS

CATEGORY	5e		6	6 _A	7		
Frequency [MHz]	1	4	10	100	250	500	600
Attenuation [dB/100m]	1.9	3.6	5.6	17.9	28	41	46
NEXT [dB]	100	100	100	100	100	92	90
PS NEXT [dB]	97	97	97	97	97	89	87
ACR-N [dB]	98	96	94	82	72	58	44
PS-ACR-N [dB]	95	93	91	79	69	55	41
ACR-F [dB]	98	98	98	78	69	56	45
PS-ACR-F [dB]	95	95	95	75	66	53	42
Return loss [dB]	26	30	33	33	28	26	25

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
 Transfer impedance at 1/10/30 MHz: < 6/6/10 mΩ/m
 Coupling attenuation (limit curve of critical state - IEC 61156): ≥ 85 dB
 Near end unbalance att. LCL at 1-600 MHz: > 40 dB
 Delay Skew: 12 ns/100 m
 NVP: 81 %



MECHANICAL CHARACTERISTICS

Bending radius (flat side)	during draw-in:	CU 7002 3x4P	CU 7002 4x4P	CU 7002 6x4P
	permanently installed:	≥ 130 mm	≥ 144 mm	≥ 170 mm
Tensile strength:		≥ 65 mm	≥ 72 mm	≥ 85 mm
Crush resistance:		≤ 300 N	≤ 400 N	≤ 600 N
Impact:		≥ 1000 N/10 cm		
Temperature range	during installation:	≥ 10 impacts		
	in operation:	0° C to + 50° 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 plus	IEEE 802.3at
EMC	shielded
Cat./Class	better than Cat.7 / Class F