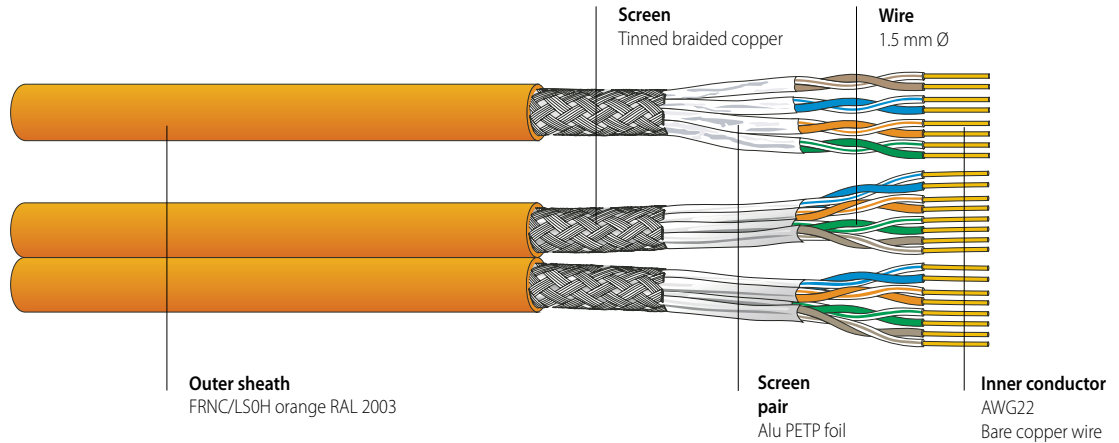
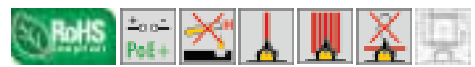


**COPPER DATA CABLES, SHIELDED**

**Data cable S/FTP Cat.7<sub>A</sub> AWG22**  
**CU 7702 4P / 2x4P F8**



**PRODUCT INFORMATION**



**FEATURES**

Electrically and mechanically high-quality Cat.7<sub>A</sub> data cable - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, IEC 61156-7, EN 50173-1 and prEN 50288-9-1. Excellent shielding effect due to individually screened pairs and overall copper braid. Easy identification of wires thanks to longitudinal colour markings. Compatible with all current connecting hardware in accordance with EN 50173 and ISO/IEC 11801.

**APPLICATIONS**

Data cable for structured premises cabling. Suitable for the transmission of digital and analogue voice, video and data signals. Suitable for all ICT network applications up to class F<sub>A</sub> applications (1000 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. Due to the increased wire section eminently suited 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	
177400	4 x 2 x 0.62 (AWG22)	FRNC/LSOH <sup>1)</sup>	7.8	65.1	34.9	0.18	0.65	1000 m drum
177390	2 x (4 x 2 x 0.62 (AWG22))	FRNC/LSOH <sup>1)</sup>	7.8 x 16.4	131.0	69.8	0.36	1.30	500 m drum

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

Copper

Fibre Optics

Cabinets & Racks

Data Centre

Wireless

Multimedia

General Information

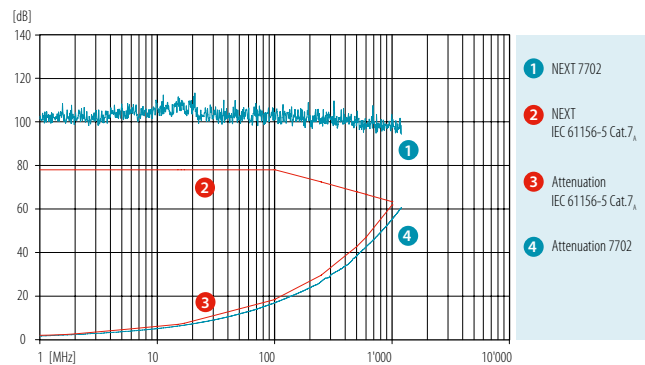
CU 7702 4P/2x4P 0312/e

**ELECTRICAL CHARACTERISTICS**

CATEGORY	5e		6	6 <sub>A</sub>	7	CATV	7 <sub>A</sub>			
Frequency [MHz]	1	4	10	100	250	500	600	862	1000	1200
Attenuation [dB/100m]	1.7	3.4	5.3	16.9	27	40	42	53	56	62
NEXT [dB]	103	103	103	103	103	98	96	92	90	85
PS NEXT [dB]	100	100	100	100	100	95	93	89	87	82
ACR-N [dB]	101	100	98	86	76	58	54	39	34	23
PS-ACR-N [dB]	98	97	95	83	73	55	51	36	31	20
ACR-F [dB]	109	107	105	93	83	70	65	57	54	46
PS-ACR-F [dB]	106	104	102	90	80	67	62	54	51	43
Return loss [dB]	26	30	33	33	28	26	25	24	23	21

These performance data are typical measured values.

Loop resistance at 20° C: 116 Ω/km  
 Mutual capacitance 43 pF/m  
 Impedance at 100 MHz: 100 Ω ± 5 Ω  
 Transfer impedance at 1/10/30 MHz: < 5/5/8 mΩ/m  
 Coupling attenuation (limit curve of critical state - IEC 61156): ≥ 85 dB  
 Near end unbalance att. LCL: > 40 dB  
 Delay skew: 15 ns/100m  
 NVP: 76 %



**MECHANICAL CHARACTERISTICS**

Bending radius (flat side)  
 Tensile strength:  
 Crush resistance:  
 Impact:  
 Temperature range

during draw-in:  
 permanently installed:  
 during installation:  
 in operation:

**CU 7702 4P**

≥ 64 mm  
 ≥ 32 mm  
 ≤ 120 N  
 ≥ 1000 N/10 cm  
 ≥ 10 impacts  
 0° C to + 50° C  
 -20° C to + 60° C

**CU 7702 2x4P F8**

≥ 64 mm  
 ≥ 32 mm  
 ≤ 240 N  
 ≥ 1000 N/10 cm  
 ≥ 10 impacts  
 0° C to + 50° C  
 -20° C to + 60° C

**GENERAL CHARACTERISTICS**

Wire colour code

white-blue/blue  
 white-orange/orange  
 white-green/green  
 white-brown/brown  
 (with longitudinal stripes)  
 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
- Flame spread
- Smoke density
- Power over Ethernet plus
- EMC
- Cat./Class

IEC 60754-1/-2, EN 50267-2-1/-2-2 (VDE 0482-267-2-1/-2-2)  
 IEC 60332-1-2, EN 60332-1-2 (VDE 0482-332-1-2)  
 IEC 60332-3-24, EN 60332-3-24  
 IEC 61034-1/-2, EN 61034-1/-2 (VDE 0482-1034-1/-2)  
 IEEE 802.3at  
 shielded  
 better than Cat.7<sub>A</sub> / Class F<sub>A</sub>