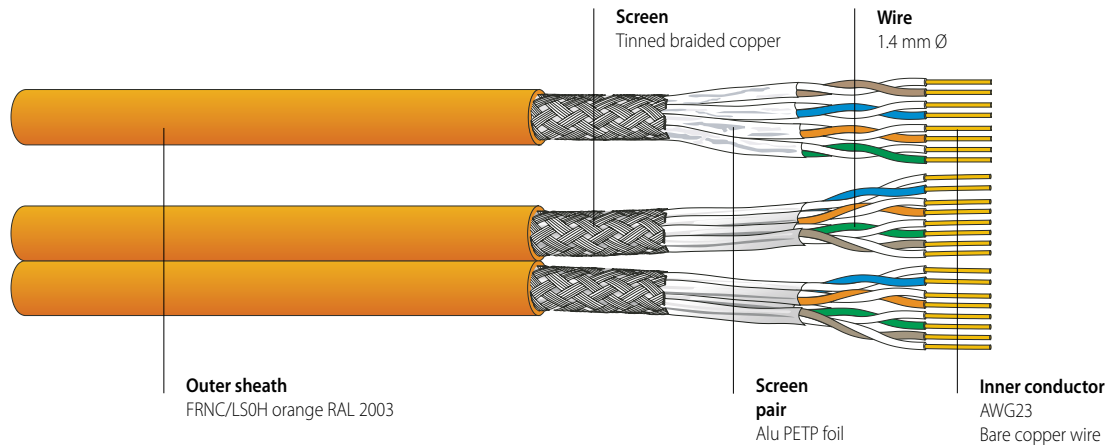


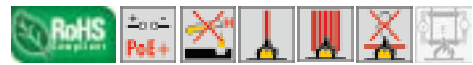
## SHIELDED DATA CABLE

# Data cable S/FTP Cat.7<sub>A</sub> AWG23

CU 7120 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, EN 50173-1 and prEN 50288-9-1.  
Excellent shielding effect due to individually screened pairs and overall copper braid.  
Reduced outer diameter.  
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 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.  
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	
191466	4 x 2 x 0.58 (AWG23)	FRNC/LSOH <sup>1)</sup>	7.5	63.0	32.3	0.18	0.649	1000 m drum
191467	2 x (4 x 2 x 0.58 (AWG23))	FRNC/LSOH <sup>1)</sup>	7.5 x 15.8	126.0	64.6	0.36	1.298	500 m drum

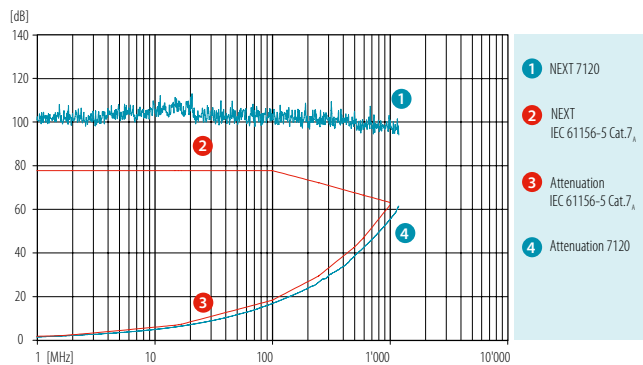
<sup>1)</sup> FRNC/LSOH = Flame Retardant Non Corrosive / Low Smoke Zero Halogen

**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]	1.8	3.5	5.4	17.7	28	41	46	54	57	64
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	85	75	57	50	38	33	21
PS-ACR-N [dB]	98	97	95	82	72	54	47	35	30	18
ACR-F [dB]	108	106	104	92	82	69	64	56	53	46
PS-ACR-F [dB]	105	103	101	89	79	66	61	53	50	43
Return loss [dB]	26	30	33	33	28	26	25	24	23	20

These performance data are typical measured values.

Loop resistance at 20° C: 136 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: 14 ns/100 m  
 NVP: 76 %



**MECHANICAL CHARACTERISTICS**

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

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

	CU 7120 4P	CU 7120 2x4P F8
during draw-in:	≥ 60 mm	≥ 60 mm
permanently installed:	≥ 30 mm	≥ 30 mm
	≤ 110 N	≤ 220 N
	≥ 1000 N/10 cm	≥ 1000 N/10 cm
	≥ 10 impacts	≥ 10 impacts
during installation:	0 °C to +50 °C	0 °C to +50 °C
in operation:	-20 °C to +60 °C	-20 °C to +60 °C

**GENERAL CHARACTERISTICS**

Wire colour code

white/blue  
 white/orange  
 white/green  
 white/brown  
 according to 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  
 Cat.7<sub>A</sub> / Class F<sub>A</sub>