CU 7120 4P / 2x4P F8

Data cable, S/FTP, Category 7_A, AWG 23

1 **Inner conductor:** AWG23 Bare copper wire
2 **PE insulated conductor:** 1.5 mm Ø
3 **Screen (pair):** Alu PETP foil
4 **Overall screen:** Tinned braided copper
5 **Outer sheath:** FRNC/LSOH Orange RAL 2003

DESCRIPTION

Electrically and mechanically advanced quality Cat.7_A data cable - fulfils the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 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.

APPLICATION

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_A 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+.

ELECTRICAL CHARACTERISTICS

Category				**5e**	**6**	**6_A**	**7**	**CATV**	**7_A**	
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.

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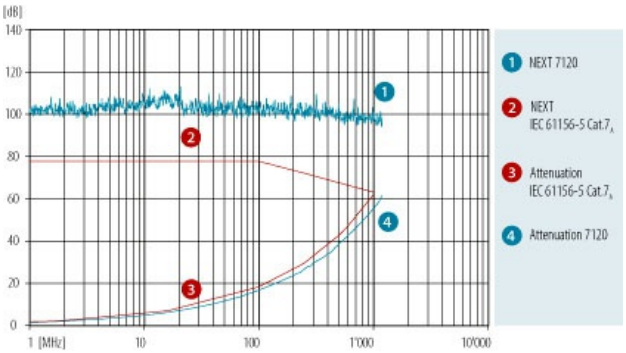
MECHANICAL PROPERTIES

		CU 7120 4P	CU 7120 2x4P F8
Bending radius (flat side)	during draw-in:	≥ 60 mm	≥ 60 mm
	permanently installed:	≥ 30 mm	≥ 30 mm
Tensile strength:		≤ 110 N	≤ 220 N
Crush resistance:		≥ 1000 N/10 cm	≥ 1000 N/10 cm
Impact resistance:		≥ 10 impacts	≥ 10 impacts
Temperature range	during installation:	0 ˚C to +50 ˚C	0 ˚C to +50 ˚C
	in operation:	-20 ˚C to +60 ˚C	-20 ˚C to +60 ˚C

ELECTRICAL PROPERTIES

Loop resistance at 20° C:	134 Ω/km
Mutual capacitance	44 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 attenuation LCL at 1-600 MHz :	> 40 dB
Delay skew:	14 ns/100 m
NVP:	76 %



STANDARDS

Wire colour	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, no corrosive gases	IEC 60754-1/-2, EN 50267-2-1/-2-2, VDE 0482-267-2-1/-2-2, AREI-RGIE Art.104-SA
Flame propagation	IEC 60332-1/-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Art.104-F1
Flame spread	IEC 60332-3-24, EN 60332-3-24, AREI-RGIE Art.104-F2
Smoke density	IEC 61034-1/-2, EN 61034-1/-2 , VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD
PoE	IEEE 802.3at
EMC	shielded
Cat./Class	Cat 7_A / Class F_A - limit values as specified by IEC 61156-5 and EN 50288-9-1 guaranteed
Segregation class	d

VERSIONS

Article Number	Product	Sheath	Sheath Ø [mm]	Sheath colour	Weight [kg/km]	Cu rate [kg/km]	Fire load [MJ/m]	Fire load [kWh/m]	Dimension n x p x [mm (AWG)]	PU
191466	CU 7120 4P	FRNC/LS0H	7.6	orange	63.0	32.3	0.65	0.18	4 x 2 x 0.59 (AWG23)	1000 m drum
191467	CU 7120	FRNC/LS0H	7.6 x 16.0	orange	126.0	64.6	1.3	0.36	2 x (4 x 2 x 0.59	500 m

	2x4P F8	(AWG23))	drum