

CU 7120 4P / 2x4P F8

Data cable, S/FTP, Category 7_A, AWG 22, Euroklasse Cca

1300 MHz



- 1 Inner conductor: AWG22 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



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 ISO/IEC 11801-4.

Applicable for Power over Ethernet PoE / PoE+ / 4PPoE up to 100W.

Construction

Outer sheath material	FRNC/LSZH
Outer sheath colour	orange

General properties

Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +60 °C
Wire colour	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»
Field of application	Indoor

Electrical properties

Category	Cat.7 _A
Gbit/s	Up to 10 Gbit/s
Loop resistance at 20 °C	131 Ω/km
Operating capacity	44 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	76
Delay skew	14 ns/100 m
Shielding	shielded
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
Transfer impedance 1/10/30 MHz	< 5/5/8 mΩ/m
Coupling attenuation	85 dB
Segregation class	d

Frequency [MHz]	Category	Attenuation [dB]	NEXT [dB]	PS-NEXT [dB]	ACR-N [dB]	PS-ACR-N [dB]	ACR-F [dB]	Return Loss [dB]
1		1.8	103	100	101	98	108	26
4		3.5	103	100	100	97	106	30
10		5.4	103	100	98	95	104	33
100	5e	17.7	103	100	85	82	92	33
250	6	28	103	100	75	72	82	28
500	6 _A	41	98	95	57	54	69	26
600	7	46	96	93	50	47	64	25
862		54	92	89	38	35	56	24
1,000	7 _A	57	90	87	33	30	53	23
1,200		64	85	82	21	18	46	20

The performance data given are typical measured values.

Mechanical properties

Solid / Flex	Solid wire
AWG	22
Minimum bending radius (permanently installed)	30 mm
Minimal crush resistance / 10cm	1,000 N
Minimum bending radius (during installation)	60 mm
Minimum number of impacts	10

Standards

Reaction to fire	EN 13501-6
Euroclass	C _{ca}
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Section 4.3.3 SD
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Section 4.3.3 SA
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Section 4.3.3 F1
Flame spread	IEC 60332-3-24, EN 60332-3-24, AREI-RGIE Section 4.3.3 F2
Cables standard	ISO/IEC 61156-5, EN 50288-9-1
Conductor Diameter (AWG)	according to UL444, table 5
Cat./Class	Cat.7 _A / Class F _A
PoE	IEEE 802.3bt Type 4 (100W)

Versions

Material number	Product	Reaction to fire	Dimensions n x p x [mm (AWG)]	Outer sheath dimensions [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit	GTIN / EAN
19146702CL	CU 7120 2x4P	Cca-s1b,d1,a1	2 x (4 x 2 x 0.59 (AWG22))	7.6 x 16.0	64.6	124	0.36	500 m drum	40393910030426
19146600CK	CU 7120 4P	Cca-s1a,d1,a1	4 x 2 x 0.59 (AWG22)	7.3	32.3	55.9	0.154	1000 m drum	40393910030563

Subject to technical modification

As of 2025-04-02 06:05:17