

CU 7120 4P / 2x4P F8

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

1200 MHz



- 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



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.

General Properties

Field of application	Indoor
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Wire colour	white/blue, white/orange, white/green, white/brown, according to IEC 60189 and IEC 60708
Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +60 °C
Outer sheath colour	orange
Outer sheath material	FRNC/LSZH

Electrical properties

Category	Cat.7 _A
Coupling attenuation	85 dB
Delay Skew	14 ns/100 m
Gbit/s	Up to 10 Gbit/s
Impedance at 100 MHz, $\pm 5\Omega$	100 Ω
Loop resistance at 20°C	134 Ω /km
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
NVP %	76
operating capacity	44 pF/m
Segregation class	d
Shielding	shielded
Transfer impedance 1/10/30 MHz	< 5/5/8 m Ω /m

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	23
Minimal crush resistance / 10cm	1,000 N
Minimum bending radius during installation	60 mm
Minimum bending radius permanently installed	30 mm
Minimum number of impacts	10
Tensile strength (2x4P)	220 N
Tensile strength (4P)	110 N

Standards

Cat./Class	Cat.7 _A / Class F _A
PoE	IEEE 802.3bt Type 4 (100W)
Reaction to fire (Euroclasses)	EN 13501-6: D _{ca}
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-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
Cables Standard	ISO/IEC 61156-5, EN 50288-9-1

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
19146600DK	CU 7120 4P	Dca-s2,d1,a1	4 x 2 x 0.59 (AWG23)	7.6	32.3	60	0.18	1000 m drum	40393910030532
19146600DL	CU 7120 4P	Dca-s2,d1,a1	4 x 2 x 0.59 (AWG23)	7.6	32.3	60	0.18	500 m drum	40393910030525
19146700DL	CU 7120 2x4P	Dca-s2,d1,a1	2 x (4 x 2 x 0.59 (AWG23))	7.6 x 16.0	64.6	120	0.36	500 m drum	40393910030464

Subject to technical modification

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