

## CU 7120 4P / 2x4P F8

Data cable, S/FTP, Category 7<sub>A</sub>, AWG 23, Euroclass Dca



- 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<sub>A</sub> 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<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 ISO/IEC 11801-4.

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

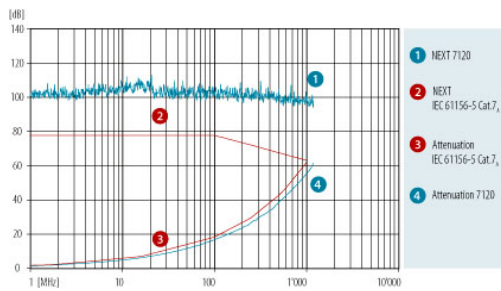
### General Properties

Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +60 °C
Wire colour	white - blue/blue, white orange/orange, white green/green, white brown/brown in acc. with IEC 60189 and IEC 60708 (ring marked)

### Electrical properties

Category	Cat.7 <sub>A</sub>
Coupling attenuation	85 dB
Delay Skew	14 ns/100 m
EMC	shielded
Impedance at 100 MHz, ±5Ω	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
Transfer impedance 1/10/30 MHz	< 5/5/8 mΩ/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 <sub>A</sub>	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 <sub>A</sub>	57	90	87	33	30	53	23
1,200		64	85	82	21	18	46	20

## Mechanical properties

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
Solid / Flex	Solid wire
Tensile strength (2x4P)	220 N
Tensile strength (4P)	110 N

## Standards

Cat./Class	Cat 7 <sub>A</sub> / Class F <sub>A</sub> - limit values as specified by IEC 61156-5 and EN 50288-9-1 guaranteed
PoE	IEEE 802.3bt Type 4 (100W)
Reaction to fire (Euroclasses)	EN 13501-6
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

## Versions

Material number	Product	Reaction To Fire	Dimensions n x p x [mm (AWG)]	Outer sheath colour	Outer sheath diameter [mm]	Outer sheath dimensions [mm]	CU rate [kg\km]	Weight [kg\km]	Fire load [kWh\m]	Packing unit
19146600DK	CU 7120 4P	Dca-s2,d1,a1	4 x 2 x 0.59 (AWG23)	orange	7.6		32.3	60	0.18	1000 m drum
19146600DL	CU 7120 4P	Dca-s2,d1,a1	4 x 2 x 0.59 (AWG23)	orange	7.6		32.3	60	0.18	500 m drum

Material number	Product	Reaction To Fire	Dimensions n x p x [mm (AWG)]	Outer sheath colour	Outer sheath diameter [mm]	Outer sheath dimensions [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit
19146700DL	CU 7120 2x4P	Dca-s2,d1,a1	2 x (4 x 2 x 0.59 (AWG23))	orange		7.6 x 16.0	64.6	120	0.36	500 m drum

Subject to technical modification

As of 2020-12-03 11:26:54