

## CU 6502 4P / 2x4P F8 Cca

Data cable, U/FTP, Category 6<sub>A</sub>, AWG23, Euroclass Cca

500 MHz



- 1 Inner conductor: AWG23 Bare copper wire
- 2 PE insulated conductor: 1.3 mm Ø
- 3 Screen (pair): Alu PETP foil
- 4 Drain wire: Tinned copper wire
- 5 Outer sheath: FRNC/LS0H orange RAL 2003



### Description

Electrically and mechanically improved quality Cat.6A data cable - fulfils the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-10-1.

Good shielding effect due to individually screened pairs.

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 EA applications (500 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.

Applicable for Power over Ethernet (PoE) / PoE+.

### General Properties

Field of application	Indoor
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
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»

## Electrical properties

Category	Cat.6 <sub>A</sub>
Coupling attenuation	55 dB
Delay Skew	5 ns/100 m
Gbit/s	Up to 10 Gbit/s
Impedance at 100 MHz, ±5Ω	100 Ω
Loop resistance at 20°C	150 Ω/km
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
NVP %	79
operating capacity	42 pF/m
Segregation class	c
Shielding	shielded
Transfer impedance 1/10/30 MHz	< 50/100/200 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		2.1	93	90	91	88	96	26
4		3.8	93	90	89	86	96	28
10		5.9	93	90	87	84	96	30
100	5e	19	93	90	73	70	74	30
250	6	30	83	80	53	50	56	27
500	6 <sub>A</sub>	43	75	72	32	29	33	21

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	56 mm
Minimum bending radius permanently installed	28 mm
Minimum number of impacts	10
Tensile strength (2x4P)	190 N
Tensile strength (4P)	95 N

## Standards

Cat./Class	Cat.6 <sub>A</sub> / Class E <sub>A</sub>
PoE	IEEE 802.3bt Type 4 (100W)
Reaction to fire (Euroclasses)	EN 13501-6: C <sub>ca</sub>
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
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 50288-10-1

## 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
19145502CL	CU 6502 2x4P	Cca-s1b,d1,a1	2 x (4 x 2 x 0.55 (AWG23))	7.0 x 14.3	40.0	96	0.3	500 m drum	40393910030716
19145300CK	CU 6502 4P	Cca-s1a,d1,a1	4 x 2 x 0.55 (AWG23)	6.8	20.0	48	0.15	1000 m drum	40393910030945
19145500CL	CU 6502 2x4P	Cca-s1a,d1,a1	2 x (4 x 2 x 0.55 (AWG23))	7.0 x 14.3	40.0	96	0.3	500 m drum	40393910030778

Subject to technical modification

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