

## CU 692 4P

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

650 MHz



- 1 Inner conductor: bare copper wire
- 2 PE insulated conductor: 1.1 mm PE
- 3 Pair separator
- 4 Outer sheath: FRNC/LSZH



### Description

Electrically and mechanically high-quality Cat.6A data cable - fulfils the requirements of ISO/IEC 11801-1, IEC 61156-5, EN 50173-1 and EN 50288-11-1.

Robust cable design with reliable electrical performance thanks to stabilising element.

Provides a large amount of spare capacity at the NEXT and Alien NEXT limit values due to cable construction with a pair separator (cross) and improved sheath design.

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 11801-1.

Applicable for Power over Ethernet PoE / PoE+ / 4PPoE.

### General Properties

Field of application	Indoor
Wire colour	white/blue-white, white/orange-white, white/green-white, white/brown-white (with length stripes)
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>
Delay Skew	30 ns/100 m
Gbit/s	Up to 10 Gbit/s
Impedance at 100 MHz, ±5Ω	100 Ω
Loop resistance at 20°C	136 Ω/km
NVP %	66
operating capacity	55 pF/m
Segregation class	b
Shielding	unshielded
TCL	50 dB

Frequency [MHz]	Category	Attenuation [dB]	NEXT [dB]	PS-NEXT [dB]	ACR-N [dB]	PS-ACR-N [dB]	ACR-F [dB]	Return Loss [dB]
1		1.6	85	82	83	80	86	29
4		3.3	80	77	76	73	78	32
10		5.5	73	70	67	64	67	32
100	5e	17.8	59	56	41	38	47	30
250	6	29	52	49	23	20	37	25
300		32	50	47	18	15	33	25
500	6 <sub>A</sub>	42	45	37	1	-4	19	22
650		53	37	34	-16	-19	18	22

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	66 mm
Minimum bending radius permanently installed	33 mm
Minimum number of impacts	3
Tensile strength (4P)	91 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
Flame Propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2
Smoke Density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2 (FRNC/LS0H)
Cables Standard	ISO/IEC 61156-5, EN 50288-11-1

## 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]	Packing unit	GTIN / EAN
19462600CL	CU 692 4P	Cca-s1a,d1,a1	4 x 2 x 0.57 (AWG23)	7.9	21.64	60	500 m drum	40393910021363

