

CU 692 4P

Data cable, U/UTP, Category 6_A, AWG23, Euroclass Dca
650 MHz



- 1 Inner conductor: bare copper wire
- 2 PE insulated conductor: 1.1 mm PE
- 3 Pair separator
- 4 Outer sheath: FRNC/LS0H



Description

Electrically and mechanically high-quality Cat.6A data cable - fulfils the requirements of ISO/IEC 11801, 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.

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

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, white/orange-white, white/green-white, white/brown-white (with length stripes)
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Field of application	Indoor

Electrical properties

Category	Cat.6 _A
Gbit/s	Up to 10 Gbit/s
Loop resistance at 20 °C	136 Ω/km
Operating capacity	55 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	66
Delay skew	30 ns/100 m
Shielding	unshielded
TCL	50 dB
Segregation class	b

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 _A	42	45	37	3	-4	19	22

The performance data given are typical measured values.

Mechanical properties

Solid / Flex	Solid wire
AWG	23
Minimum bending radius (permanently installed)	33 mm
Minimal crush resistance / 10cm	1,000 N
Minimum bending radius (during installation)	66 mm
Minimum number of impacts	3

Standards

Reaction to fire	EN 13501-6
Euroclass	D _{ca}
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2 (FRNC/LS0H)
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
Cables standard	ISO/IEC 61156-5, EN 50288-11-1
Cat./Class	Cat.6 _A / Class E _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]	Packing unit	GTIN / EAN
19462600DL	CU 692 4P	Dca-s2,d1,a1	4 x 2 x 0.57 (AWG23)	7.9	21.64	61.2	500 m drum	40393910021349

