

CU 692 4P

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



- 1 Inner conductor:** AWG23 / 0.60 mm, bare copper wire
- 2 PE insulated conductor:** 1.1 mm Ø PE
- 3 Pair separator**
- 4 Outer sheath:** FRNC/LSOH (orange, RAL 2003)



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.

ELECTRICAL CHARACTERISTICS

Category				5e	6	6A	
Frequency [MHz]	1	4	10	100	250	300	500
Attenuation [dB/100m]	1.6	3.3	5.5	17.8	29	32	42
NEXT [dB]	85	80	73	59	52	50	45
PS NEXT [dB]	82	77	70	56	49	47	37
ACR-N [dB]	83	76	67	41	23	18	1
PS-ACR-N [dB]	80	73	64	38	20	15	-
ACR-F [dB]	86	78	67	47	37	33	19
PS-ACR-F [dB]	83	75	64	45	34	30	16
Return loss [dB]	29	32	32	30	25	25	22

These performance data are typical measured values.

ELECTRICAL PROPERTIES

Category:	Cat.6
Delay Skew:	20 ns/100 m
DAT_Impedanceat100MHz_NUM:	100 Ω
Loop resistance at 20°C:	155 Ω/km
NVP %:	67
operating capacity:	50 pF/m
TCL:	50 dB

MECHANICAL PROPERTIES

Minimum bending radius during installation:	66 mm
Minimum bending radius permanently installed:	33 mm
Tensile strength (4P):	91 N
Minimal crush resistance / 10cm:	1,000 N
Minimum number of impacts:	3
Installation temperature:	0 °C - +50 °C
Operating temperature:	-20 °C - +60 °C

STANDARDS

Reaction to fire (Euroclasses)	EN 13501-6: C _{ca}
Wire colour	white-blue/bluewhite-orange/orangewhite-green/greenwhite-brown/brown(with longitudinal stripes)in accordance with IEC 60189 and IEC 60708
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»

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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 - applies to FRNC/LS0H
PoE	IEEE 802.3af
Segregation class	b
Cat./Class	Cat.6A / Class E _A

VERSIONS

Article No.	DoP	Product	Reaction to fire (Euroclasses)	Dimensions n x p x [mm (AWG)]	Sheath	Sheath colour	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	PU
19425800CL		CU 692 4P	Cca-s1a,d1,a1	4 x 2 x 0.60 (AWG23)	FRNC/LS0H	orange	8.9	88	24.4	500 m drum