

CU 692 4P..

Data cable, U/UTP, Category 6A, AWG23, Euroclass B2_{ca}



- 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/LS0H (orange, RAL 2003)



DESCRIPTION

Electrically and mechanically high-quality Cat.6_A 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 E_A applications (500 MHz) in accordance with EN 50173-1 and ISO/IEC 11801. Applicable for Power over Ethernet (PoE) / PoE+ / 4PPoE.

ELECTRICAL CHARACTERISTICS

Category	1	4	10	5e	6	300	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

Loop resistance at 20° C:	136 Ω/km
Mutual capacitance:	55 pF/m
Mean Characteristic Impedance at 100 MHz:	100 Ω ±5 Ω
TCL:	≥ 50 - 10 x lg f db
Delay Skew:	< 30 ns/100 m
NVP:	67%

MECHANICAL PROPERTIES

Bending radius	during draw-in:	≥ 66 mm
	permanently installed:	≥ 33 mm
Tensile strength:		≤ 91 N
Crush resistance:		≤ 1000 N/10 cm
Impact:		≤ 3 impacts
Temperature range	during installation:	0° C to + 50° C
	in operation:	-20° C to + 60° C

STANDARDS

Wire colour white-blue/bluewhite-orange/orangewhite-green/greenwhite-brown/brown(with longitudinal stripes)in accordance with IEC 60189 and IEC 60708

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Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Zero halogen, no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2 - applies to FRNC/LS0H
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
Reaction to fire (Euroclasses)	EN 13501-6: B2_{ca} -s1,d1,a1
PoE	IEEE 802.3af
Segregation class	b
Cat./Class	Cat.6 _A / Class E _A

VERSIONS

Article No.	DoP	Product	Dimensions n x p x [mm (AWG)]	Sheath	Sheath colour	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	PU
19425800BL		CU 692 4P	4 x 2 x 0.60 (AWG23)	FRNC/LS0H	orange	8.9	72	24.4	500 m drum