

CU 692 4P

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



- 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), FR/PVC (grey RAL 7037)



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+.

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

Reaction to fire (Euroclasses)	EN 13501-6:Dca-s2,d1,a1
Wire colour	white - blue/bluewhite - orange/orangewhite - green/greenwhite - brown/brown in accordance with IEC 60189 and IEC 60708 (ring)

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Imprint	marked)
Zero halogen, no corrosive gases	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Flame propagation	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2
Smoke density	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2
PoE	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2 - applies to FRNC/LSOH
Segregation class	IEEE 802.3af
Cat./Class	b
	Cat.6A / Class EA

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
19425800DL		CU 692 4P	4 x 2 x 0.60 (AWG23)	FRNC/LSOH	orange	8.9	72.2	24.4	500 m drum