

CU 692 4P

Data cable, U/UTP, Category 6_A, AWG23



- 1 Inner conductor:** AWG23/0.57 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.6_A 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 E_A 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	6 _A
Frequency [MHz]	1	4	10	100	250	300	500
Attenuation [dB/100m]	1.8	3.6	5.6	18.1	29.1	31.5	44
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]	27	32	32	30	25	25	19

These performance data are typical measured values.

CU 692 4P

Data cable, U/UTP, Category 6_A, AWG23



ELECTRICAL PROPERTIES

Loop resistance at 20° C:	155 Ω/km
Mutual capacitance:	50 pF/m
Mean Characteristic Impedance at 100 MHz:	100 Ω ±5 Ω
TCL:	≥ 50 - 10 x lg f db
Delay Skew:	< 45 ns/100 m
NVP:	67%

MECHANICAL PROPERTIES

Bending radius	during draw-in:	≥ 68 mm
	permanently installed:	≥ 34 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/blue white - orange/orange white - green/green white - brown/brown in accordance with IEC 60189 and IEC 60708 (ring marked)
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Zero halogen, no corrosive gases	IEC 60754-1/-2, EN 50267-2-1/-2-2, VDE 0482-267-2-1/-2-2 - applies to FRNC/LSOH
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/LSOH
PoE	IEEE 802.3af
Segregation class	b
Cat./Class	Cat 6 _A / Class E _A - limit values as specified by IEC 61156-5 and EN 50288-10-1 guaranteed

VERSIONS

Article No.	Product	Dimension n x n x mm (AWG)	Sheath colour	Sheath	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	PU
194259	CU 692 4P	4 x 2 x 0.57 (AWG23)	grey	FR/PVC	8.5	57	22.6	500 m drum
194258	CU 692 4P	4 x 2 x 0.57 (AWG23)	orange	FRNC/LSOH	8.5	57	22.6	500 m drum