CU 696 4P

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

650 MHz



1 Inner conductor: bare copper wire
2 PE insulated conductor: 1.3 mm ⊠ PE
3 Dätwyler AXT-Guard
4 Outer sheath: FRNC/LS0H

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.
Very high installation stability thanks to innovative cable design.
Provides a large amount of spare capacity at the NEXT and Alien NEXT limit values due to optimized pair twisting and construction.
Compatible with all current connecting hardware in accordance with EN 50173 and ISO/IEC 11801.

Application

Data cable for structured premesis 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+ / 4PPoE.

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/orange, white/green, white/brown, according to IEC 60189 and IEC 60708
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	150 Ω/km
Operating capacity	42 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	79
Delay skew	5 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	17.5	60	57	41	38	47	30
250	6	29	55	52	23	20	37	25
300		32	55	52	20	17	33	25
500	6_A	42	50	47	8	5	19	22

The performance data given are typical measured values.

Mechanical properties

Solid / Flex	Solid wire
AWG	23
Minimum bending radius (permanently installed)	28 mm
Minimum bending radius (during installation)	56 mm
Tensile strength (4P)	91 N

Standards

Reaction to fire	EN 13501-6
Euroclass	$B2_{ca}$
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 colour	Outer sheath dimensions [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit	GTIN / EAN
19483300BL	CU 696 4P	B2ca-s1a,d1,a1	4 x 2 x 0.55 (AWG23)	orange	6.9	19	44.9	0.131	500 m drum	40393910494273