

CU 662 4P

Data cable, U/UTP, Category 6, AWG23, Euroclass Eca

300 MHz



- 1 Inner conductor: AWG23/0,55 mm Bare Copper wire
- 2 PE insulated conductor: 0.98 mm & empty; PE
- 3 Pair separator
- 4 Outer sheath: FRNC/LSoH orange RAL 2003, FR/PVC grey RAL 7037



Description

Electrically and mechanically advanced quality Cat.6 data cable - fulfils the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-6-1.

Robust cable design with reliable electrical performance thanks to stabilising element.

Very good NEXT reserve due to cable construction with a pair separator (cross).

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 applications (250 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.

Applicable for Power over Ethernet (PoE) / PoE+.

Construction

Outer sheath material	FRNC/LSZH
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General properties

Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +60 °C
Wire colour	white/blue-white, white/orange-white, white/green-white, white/brown-white (with length stripes)
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Field of application	Indoor

Electrical properties

Category	Cat.6
Gbit/s	Up to 1 Gbit/s
Loop resistance at 20 °C	155 Ω/km
Operating capacity	50 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	67
Delay skew	20 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		1.8	85	82	83	80	86	27
4		3.6	80	77	76	73	78	32
10		5.6	73	70	67	64	67	32
100	5e	18.1	59	56	41	38	47	30
250	6	29.1	52	49	23	20	37	25
300		31.5	50	47	18	15	33	25

The performance data given are typical measured values.

Mechanical properties

Solid / Flex	Solid wire
AWG	23
Minimum bending radius (permanently installed)	22.5 mm
Minimal crush resistance / 10cm	1,000 N
Minimum bending radius (during installation)	45 mm
Minimum number of impacts	10

Standards

Reaction to fire	EN 13501-6
Euroclass	E _{ca}
Smoke density	AREI-RGIE Art.104-SD - applies to FRNC/LS0H, EN 61034-1/-2, IEC 61034-1/-2, VDE 0482-1034-1/-2
Zero halogen no corrosive gases	AREI-RGIE Art.104-SA, EN 60754-1/-2, IEC 60754-1/-2, VDE 0482-754-1/-2
Flame propagation	AREI-RGIE Art.104-F1, EN 60332-1-2, IEC 60332-1-2, VDE 0482-332-1-2
Cables standard	ISO/IEC 61156-5, EN 50288-6-1
Cat./Class	Cat.6 / Class E
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
24014100EP	CU 662 4P	Eca	4 x 2 x 0.55 (AWG23)	orange	6	19.4	41	0.17	305 m PullQuick box	40393910015812

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24014100ES	CU 662 4P	Eca	4 x 2 x 0.55 (AWG23)	orange	6	19.4	49	0.17	305 m reel in box	40393910015805
24013910ES	CU 662 4P	Eca	4 x 2 x 0.55 (AWG23)	grey	6	19.4	49	0.20	305 m reel in box	40393910090017

Subject to technical modification

As of 2024-11-04 11:03:31