

## CU 662 4P B2ca

Data cable, U/UTP, Category 6, AWG23, Euroclass B2ca

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



### Description

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

### 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+.

### General Properties

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

## Electrical properties

Category	Cat.6
Delay Skew	20 ns/100 m
Gbit/s	Up to 1 Gbit/s
Impedance at 100 MHz, $\pm 5\Omega$	100 $\Omega$
Loop resistance at 20°C	155 $\Omega$ /km
NVP %	67
operating capacity	50 pF/m
Segregation class	b
Shielding	unshielded
TCL	50 dB

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	30	52	49	23	20	37	28
300		33	50	47	18	15	33	25

The performance data given are typical measured values.

## Mechanical properties

Solid / Flex	Solid wire
AWG	23
Minimal crush resistance / 10cm	1,000 N
Minimum bending radius during installation	45 mm
Minimum bending radius permanently installed	22.5 mm
Minimum number of impacts	10
Tensile strength (4P)	91 N

## Standards

Cat./Class	Cat.6 / Class E
PoE	IEEE 802.3bt Type 4 (100W)
Reaction to fire (Euroclasses)	EN 13501-6: B2 <sub>ca</sub>
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
Smoke Density	EN 61034-1/-2, IEC 61034-1/-2, VDE 0482-1034-1/-2
Cables Standard	ISO/IEC 61156-5, EN 50288-6-1

## Versions

Material number	Product	Reaction To Fire	Dimensions n x p x [mm (AWG)]	Outer sheath dimensions [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit	GTIN / EAN
24014101BL	CU 662 4P	B2ca-s1a,d1,a1	4 x 2 x 0.55 (AWG23)	6.6	19.5	49	0.19	500 m drum	40393910015799
24014101BP	CU 662 4P	B2ca-s1a,d1,a1	4 x 2 x 0.55 (AWG23)	6.6	19.5	49	0.19	305 m PullQuick box	40393910015782

