



- 1 Inner conductor:** AWG23/0,55 mm Bare Copper wire
- 2 PE insulated conductor:** 0.98 mm Ø 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+.

ELECTRICAL CHARACTERISTICS

Category	1	4	10	5e	6	300
Frequency [MHz]				100	250	
Attenuation [dB/100m]	1.8	3.6	5.6	18.1	30	33
NEXT [dB]	85	80	73	59	52	50
PS NEXT [dB]	82	77	70	56	49	47
ACR-N [dB]	83	76	67	41	23	18
PS-ACR-N [dB]	80	73	64	38	20	15
ACR-F [dB]	86	78	67	47	37	33
PS-ACR-F [dB]	83	75	64	45	34	30
Return loss [dB]	27	32	32	30	28	25

These performance data are typical measured values.

ELECTRICAL PROPERTIES

Category:	Cat.6
Delay Skew:	20 ns/100 m
Impedance at 100 MHz, ±5Ω:	100 Ω
Loop resistance at 20°C:	155 Ω/km
NVP %:	67
operating capacity:	50 pF/m
TCL:	50 dB

SUPPORTED APPLICATIONS

10Base-T, 100Base-T, 1000Base-T, Fieldbus

MECHANICAL PROPERTIES

Minimum bending radius during installation:	45 mm
Minimum bending radius permanently installed:	22.5 mm
Tensile strength (4P):	91 N
Minimal crush resistance / 10cm:	1,000 N
Minimum number of impacts:	10
Installation temperature:	0 °C - +50 °C
Operating temperature:	-20 °C - +60 °C

STANDARDS

Reaction to fire (Euroclass)

As of 26.09.2020

Subject to technical modification.

CU 662 4P B2ca

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



Wire colour	EN 13501-6: B _{2ca} white - blue/bluewhite - orange/orangewhite - green/greenwhite - brown/brownin 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 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Art.104-SA
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Art.104-F1
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD
Oil resistance	09_Oil-.jpg
Segregation class	b
Cat./Class	Cat 6 / Class E - limit values as specified by IEC 61156-5 and EN 50288-6-1 guaranteed

VERSIONS

Article No.	DoP	Product	Reaction to fire (Euroclass)	Dimensions n x p x [mm (AWG)]	Sheath	Sheath colour	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Fire load [MJ/m]	Fire load [kWh/m]	PU
24014100BP		CU 662 4P	B2ca-s1a,d1,a1	4 x 2 x 0.55 (AWG23)	FRNC/LSZH	orange	6.6	49	19.5	0.67 MJ/m	0.19	305 m PullQuick box
24014100BL		CU 662 4P	B2ca-s1a,d1,a1	4 x 2 x 0.55 (AWG23)	FRNC/LSZH	orange	6.6	49	19.5	0.67 MJ/m	0.19	500 m drum