

CU 7052 4P

Data cable, F/FTP, Category 7, AWG23, Euroclass B2ca

862 MHz



- 1 Inner conductor: AWG23 Bare copper wire
- 2 PE insulated conductor: 1.4 mm Ø
- 3 Screen (pair): Alu PETP foil
- 4 Drain wire: Tinned copper wire
- 5 Overall screen: Alu PETP foil
- 6 Outer sheath: FRNC/LS0H orange RAL 2003



Description

Electrically and mechanically advanced quality Cat.7 data cable - fulfils the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-4-1.

Excellent shielding effect due to individually screened pairs and overall foil screen.

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 F applications (600 MHz) in accordance with EN 50173-1 and ISO/IEC 11801 and for the transmission of broadband signals (such as cable TV) in accordance with IEC 15018.

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

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.7
Gbit/s	Up to 10 Gbit/s
Loop resistance at 20 °C	140 Ω/km
Operating capacity	42 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	81
Delay skew	12 ns/100 m
Shielding	shielded
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
Coupling attenuation	85 dB
Segregation class	c

Frequency [MHz]	Category	Attenuation [dB]	NEXT [dB]	PS-NEXT [dB]	ACR-N [dB]	PS-ACR-N [dB]	ACR-F [dB]	Return Loss [dB]
1		1.9	98	95	96	93	96	24
4		3.6	98	95	94	91	96	28
10		5.6	98	95	92	89	96	31
100	5e	17.9	98	95	80	77	76	31
250	6	28	98	95	70	67	68	26
500	6 _A	41	90	87	56	53	54	24
600	7	46	88	85	42	39	43	23
862		54	81	78	27	24	35	20

The performance data given are typical measured values.

Mechanical properties

Solid / Flex	Solid wire
AWG	23
Minimum bending radius (permanently installed)	30 mm
Minimal crush resistance / 10cm	1,000 N
Minimum bending radius (during installation)	60 mm
Minimum number of impacts	10

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, AREI-RGIE Section 4.3.3 SD
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Section 4.3.3 SA
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Section 4.3.3 F1
Flame spread	IEC 60332-3-24, EN 60332-3-24, AREI-RGIE Section 4.3.3 F2
Cables standard	ISO/IEC 61156-5, EN 50288-4-1
Cat./Class	Cat.7 / Class F
PoE	IEEE 802.3bt Type 4 (100W)

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
18851400BK	CU 7052 4P	B2ca-s1a,d1,a1	4 x 2 x 0.57 (AWG23)	7.3	21.3	52.4	0.16	1000 m drum	40393910034301
18851400BL	CU 7052 4P	B2ca-s1a,d1,a1	4 x 2 x 0.57 (AWG23)	7.3	21.3	52.4	0.16	500 m drum	40393910034295

Subject to technical modification

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