CU 7002 4P / 2x4P F8

Data cable, S/FTP, Category 7, AWG23, Euroclass Dca

1000 MHz



1 Inner conductor: AWG23 Bare copper wire
2 PE insulated conductor: 1.4 Ø
3 Screen (pair): Alu PETP foil
4 Overall screen: Tinned braided copper
5 Outer sheath: FRNC/LSOH Orange RAL 2003

Description

Electrically and mechanically superior quality Cat.7 data cable - exceeds 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 copper braid.
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+ and 4PPoE up to 100W.

General Properties

Field of application	Indoor
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Wire colour	white/blue, white/orange, white/green, white/brown, according to IEC 60189 and IEC 60708
Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +60 °C
Outer sheath colour	orange
Outer sheath material	FRNC/LSZH

Electrical properties

Category	Cat.7
Coupling attenuation	85 dB
Delay Skew	12 ns/100 m
GBit\s	Up to 10 Gbit/s
Impedance at 100 MHz, ±5Ω	100 Ω
Loop resistance at 20°C	140 Ω/km
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
NVP %	81
operating capacity	42 pF/m
Segregation class	d
Shielding	shielded
Transfer impedance 1/10/30 MHz	< 6/6/10 mΩ/m

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	100	97	98	95	98	26
4		3.6	100	97	96	93	98	30
10		5.6	100	97	94	91	98	33
100	5e	19.9	100	97	82	79	78	33
250	6	28	100	97	72	69	69	28
500	6_A	41	92	89	58	55	56	26
600	7	46	90	87	44	41	45	25
800		52	84	81	32	29	39	23
862		54	83	80	29	26	37	22
1,000		57	80	77	23	20	33	20

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	60 mm
Minimum bending radius permanently installed	30 mm
Minimum number of impacts	10
Tensile strength (2x4P)	220 N
Tensile strength (4P)	110 N

Standards

Cat./Class	Cat.7 / Class F
PoE	IEEE 802.3bt Type 4 (100W)
Reaction to fire (Euroclasses)	EN 13501-6: D_{ca}
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
Flame Spread	IEC 60332-3-24, EN 60332-3-24, AREI-RGIE Art.104-F2
Smoke Density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD
Cables Standard	ISO/IEC 61156-5, EN 50288-4-1

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
17738800DK	CU 7002 4P	Dca-s2,d1,a1	4 x 2 x 0.57 (AWG23)	7.2	31.1	55	0.16	1000 m drum	40393910043525
17738800DL	CU 7002 4P	Dca-s2,d1,a1	4 x 2 x 0.57 (AWG23)	7.2	31.1	55	0.16	500 m drum	40393910043518
17739800DL	CU 7002 2x4P	Dca-s2,d1,a1	2 x (4 x 2 x 0.57 (AWG23))	7.2 x 15.4	62.2	110	0.32	500 m drum	40393910043341