

CU 7702 4P / 2x4P F8

Data cable, S/FTP, Category 7_A, AWG22, Euroclass Dca

1300 MHz



- 1 Inner conductor: AWG22 Bare copper wire
- 2 PE insulated conductor: 1.5 mm & empty;
- 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_A data cable - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, IEC 61156-7, EN 50173-1 and prEN 50288-9-1.

Excellent shielding effect due to individually screened pairs and overall copper braid.

Easy identification of wires thanks to longitudinal colour markings.

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_A applications (1000 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.

Due to the increased wire section eminently suited 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, 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

Electrical properties

Category	Cat.7 _A
Coupling attenuation	85 dB
Delay Skew	15 ns/100 m
Gbit/s	Up to 10 Gbit/s
Impedance at 100 MHz, $\pm 5\Omega$	100 Ω
Loop resistance at 20°C	116 Ω /km
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
NVP %	76
operating capacity	43 pF/m
Segregation class	d
Shielding	shielded
Transfer impedance 1/10/30 MHz	< 5/5/8 m Ω /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		1.7	103	100	101	98	109	26
4		3.4	103	100	100	97	107	30
10		5.3	103	100	98	95	105	33
100	5e	16.9	103	100	86	83	93	33
250	6	27	103	100	76	73	83	28
500	6 _A	40	98	95	58	55	70	26
600	7	42	96	93	54	51	65	25
862		53	92	89	39	36	57	24
1,000	7 _A	56	90	87	34	31	54	23
1,200		62	85	82	23	20	46	21
1,300		66	84	81	18	15	44	19

The performance data given are typical measured values.

Mechanical properties

Solid / Flex	Solid wire
AWG	22
Minimal crush resistance / 10cm	1,000 N
Minimum bending radius during installation	64 mm
Minimum bending radius permanently installed	32 mm
Minimum number of impacts	10
Tensile strength (2x4P)	240 N
Tensile strength (4P)	120 N

Standards

Cat./Class	Cat.7 _A / Class F _A
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 50288-9-1

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
18676700DK	CU 7702 4P	Dca-s2,d1,a1	4 x 2 x 0.62 (AWG22)	7.6	34.9	62	0.18	1000 m drum	40393910038248
17740000DK	CU 7702 4P	Dca-s2,d1,a1	4 x 2 x 0.62 (AWG22)	7.6	34.9	62	0.18	1000 m drum	40393910043266
17740000DL	CU 7702 4P	Dca-s2,d1,a1	4 x 2 x 0.62 (AWG22)	7.6	34.9	62	0.18	500 m drum	40393910043259
17739000DL	CU 7702 2x4P	Dca-s2,d1,a1	2 x (4 x 2 x 0.62 (AWG22))	7.6 x 16.2	69.8	125	0.36	500 m drum	40393910043440

Subject to technical modification

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