

## CU 7702 4P / 2x4P F8

Data cable, S/FTP, Category 7<sub>A</sub>, AWG22, Euroclass B2ca

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.7A 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<sub>A</sub> 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.

### 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, white/orange-white, white/green-white, white/brown-white (with length stripes)
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Field of application	Indoor

## Electrical properties

Category	Cat.7 <sub>A</sub>
Gbit/s	Up to 10 Gbit/s
Loop resistance at 20 °C	116 Ω/km
Operating capacity	43 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	76
Delay skew	15 ns/100 m
Shielding	shielded
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
Transfer impedance 1/10/30 MHz	< 5/5/8 mΩ/m
Coupling attenuation	85 dB
Segregation class	d

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 <sub>A</sub>	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 <sub>A</sub>	56	90	87	34	31	54	23
1,200		62	85	82	23	20	46	21

The performance data given are typical measured values.

## Mechanical properties

Solid / Flex	Solid wire
AWG	22
Minimum bending radius (permanently installed)	32 mm
Minimal crush resistance / 10cm	1,000 N
Minimum bending radius (during installation)	64 mm
Minimum number of impacts	10

## Standards

Reaction to fire	EN 13501-6
Euroclass	B2 <sub>ca</sub>
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 50288-9-1
Cat./Class	Cat.7 <sub>A</sub> / Class F <sub>A</sub>
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
17740000BL	CU 7702 4P	B2ca-s1a,d1,a1	4 x 2 x 0.62 (AWG22)	7.4	35	57.5	0.146	500 m drum	40393910043310
17740000BK	CU 7702 4P	B2ca-s1a,d1,a1	4 x 2 x 0.62 (AWG22)	7.4	34.9	57.5	0.146	1000 m drum	40393910043327
17739000BL	CU 7702 2x4P	B2ca-s1,d1,a1	2 x (4 x 2 x 0.62 (AWG22))	7.6 x 16.2	69.8	127.1	0.36	500 m drum	40393910043488

Subject to technical modification

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