

## CU 7702 4P / 2x4P F8

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



- 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<sub>A</sub> 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).

Due to the increased wire section eminently suited for Power over Ethernet (PoE) / PoE+ and 4PPoE.

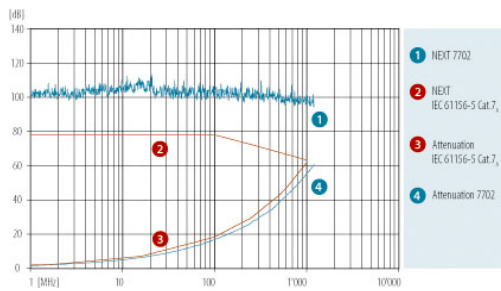
### General Properties

Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +60 °C
Wire colour	white - blue/blue, white orange/orange, white green/green, white brown/brown in acc. with IEC 60189 and IEC 60708 (ring marked)

### Electrical properties

Category	Cat.7 <sub>A</sub>
Coupling attenuation	85 dB
Delay Skew	15 ns/100 m
EMC	shielded
Impedance at 100 MHz, ±5Ω	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
Transfer impedance 1/10/30 MHz	< 5/5/8 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		1.7	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

## Mechanical properties

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
Solid / Flex	Solid wire
Tensile strength (2x4P)	240 N
Tensile strength (4P)	120 N

## Standards

Cat./Class	Cat 7 <sub>A</sub> / Class F <sub>A</sub> - limit values as specified by IEC 61156-5 and EN 50288-9-1 guaranteed
PoE	IEEE 802.3bt Type 4 (100W)
Reaction to fire (Euroclasses)	EN 13501-6
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

## Versions

Material number	Product	Reaction To Fire	Dimensions n x p x [mm (AWG)]	Outer sheath colour	Outer sheath diameter [mm]	Outer sheath dimensions [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit
17740000DK	CU 7702 4P	Dca-s2,d1,a1	4 x 2 x 0.62 (AWG22)	orange	7.6		34.9	62	0.18	1000 m drum
17740000DL	CU 7702 4P	Dca-s2,d1,a1	4 x 2 x 0.62 (AWG22)	orange	7.6		34.9	62	0.18	500 m drum

Material number	Product	Reaction To Fire	Dimensions n x p x [mm (AWG)]	Outer sheath colour	Outer sheath diameter [mm]	Outer sheath dimensions [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit
17739000DL	CU 7702 2x4P	Dca-s2,d1,a1	2 x (4 x 2 x 0.62 (AWG22))	orange		7.6 x 16.2	69.8	125	0.36	500 m drum

Subject to technical modification

As of 2020-11-30 18:53:55