CU 7702 4P / 2x4P F8

Data cable, S/FTP, Category 7_A, AWG22, Euroclass B2ca

1 Inner conductor: AWG22 Bare copper wire
2 PE insulated conductor: 1.5 mm ∅
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_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+.

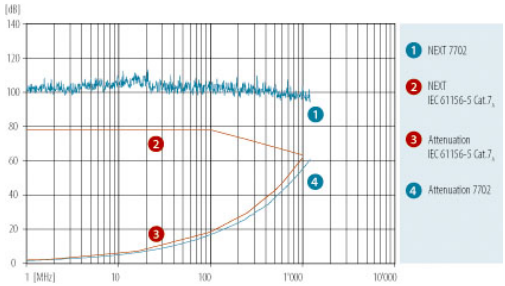
General Properties

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_A
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_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

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_A / Class F_A - 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
17739002BL	CU 7702 2x4P	B2ca-s1b,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
17740000BK	CU 7702 4P	B2ca-s1a,d1,a1	4 x 2 x 0.62 (AWG22)	orange	7.6		34.9	62	0.18	1000 m drum