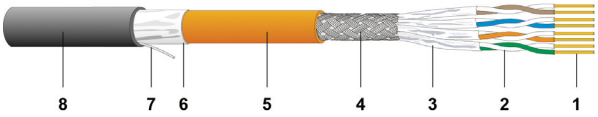
CU 7702 4P FRNC/GG/FRNC

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

1300 MHz



1 Inner conductor: AWG22 Bare copper wire
2 PE insulated conductor: 1.52 mm Ø
3 Screen (pair): Alu PETP foil
4 Overall screen: Tinned braided copper
5 Sheath: FRNC/LS0H orange RAL 2003
6 Rodent protection: with glass rovings
7 Ripcord
8 Outer sheath: FRNC/LS0H black

Description

Applicable for outdoor installation due to rodent protection and UV resistant outer cable sheath.
Robust cable design with a high mechanical stability.
Electrically and mechanically superior quality Cat.7_A data cable - exceeds the requirements of ISO/IEC 11801-1, IEC 61156-5, EN 50173-1 and EN 50288-9-1.
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 11801-1.

Application

Data cable for structured premise cabling with enhanced mechanical and fire protection performance.
Designed for installation in Tunnels, Metro-Systems and Buildings with augmented requirements.
With rodent protection and UV protected outer sheath. Installation in ducts, tubes and on cable support systems.
Suitable for all ICT network applications up to class F_A applications (1000 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.
Supports 10Base-T, 100Base-T, 1GBase-T (1000Base-T) and 10GBase-T.
Applicable for Power over Ethernet PoE / PoE+ / 4PPoE.

General Properties

Field of application	Outdoor
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	black
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, ±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
Shielding	shielded
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
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	96 mm
Minimum bending radius permanently installed	48 mm
Minimum number of impacts	10
Tensile strength (4P)	150 N

Standards

Cat./Class	Cat.7_A / Class F_A
PoE	IEEE 802.3bt Type 4 (100W)
Reaction to fire (Euroclasses)	EN 13501-6: C_{ca}
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2
Flame Propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2
Smoke Density	IEC 61034-1/-2, EN 61034-1/-2
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
19435400CZ	CU 7702 4P	Cca-s1a,d1,a1	4 x 2 x 0.62 (AWG22)	12.0	34.9	167	0.55	by the metre	40393910022704