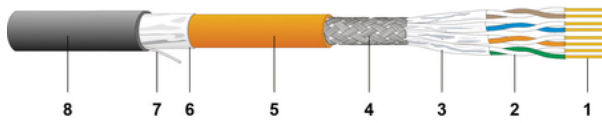


CU 7702 4P FRNC/GG/FRNC

Data cable, S/FTP, Category 7_A, AWG22, Euroclass Cca
with rodent protection and UV resistant cable sheath



- 1 Inner conductor: AWG22 Bare copper wire
- 2 PE insulated conductor: 1.5 mm Ø
- 3 Screen (pair): Alu PETP foil
- 4 Overall screen: Tinned braided copper
- 5 Sheath: FRNC/LSZH orange RAL 2003
- 6 Rodent protection: with glass rovings
- 7 Ripcord
- 8 Outer sheath: FRNC/LSZH 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.

ELECTRICAL CHARACTERISTICS

Category	1	4	10	5e	6	6 _A	7	CATV	7 _A	1200
Frequency [MHz]	1	4	10	100	250	500	600	862	1000	1200
Attenuation [dB/100m]	1.7	3.4	5.3	16.9	27	40	42	53	56	62
NEXT [dB]	103	103	103	103	103	98	96	92	90	85
PS NEXT [dB]	100	100	100	100	100	95	93	89	87	82
ACR-N [dB]	101	100	98	86	76	58	54	39	34	23
PS-ACR-N [dB]	98	97	95	83	73	55	51	36	31	20
ACR-F [dB]	109	107	105	93	83	70	65	57	54	46
PS-ACR-F [dB]	106	104	102	90	80	67	62	54	51	43
Return loss [dB]	26	30	33	33	28	26	25	24	23	21

These performance data are typical measured values.

ELECTRICAL PROPERTIES

Loop resistance at 20° C:	116 Ω/km
Mutual capacitance:	43 pF/m
Impedance at 100 MHz:	100 Ω ± 5 Ω
Transfer impedance at 1/10/30 MHz:	< 5/5/8 mΩ/m
Coupling attenuation (limit curve of critical state - IEC 61156):	> 85 dB
Near end unbalance attenuation	> 40 dB
LCL at 1-600 MHz :	
Delay skew:	15 ns/100m
NVP:	76 %

SUPPORTED APPLICATIONS

10Base-T, 100Base-T, 1000Base-T, 2.5GBase-T, 5GBase-T, 10GBase-T

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with rodent protection and UV resistant cable sheath



MECHANICAL PROPERTIES

		CU 7702 4P
Bending radius (flat side)	during draw-in:	≥ 96 mm
	permanently installed:	≥ 48 mm
Tensile strength:		≤ 150 N
Crush resistance:		≤ 1000 N/10 cm
Impact:		≤ 10 impacts
Temperature range	during installation:	0° C to + 50° C
	in operation:	-20° C to + 60° C

STANDARDS

Reaction to fire (Euroclasses)	EN 13501-6: C _{ca}
Wire colour	white-blue/bluewhite-orange/orangewhite-green/greenwhite-brown/brown(with longitudinal stripes)in accordance with IEC 60189 and IEC 60708
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
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
PoE	IEEE 802.3at
EMC	shielded
Segregation class	d
Cat./Class	Cat 7 _A / Class F _A - limit values as specified by IEC 61156-5 and EN 50288-9-1 guaranteed

VERSIONS

Article No.	DoP	Product	Reaction to fire (Euroclasses)	Dimensions n x p x [mm (AWG)]	Sheath	Sheath colour	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Fire load [MJ/m]	Fire load [kWh/m]	PU
19435400CZ		CU 7702 4P	Cca-s1a,d1,a1	4 x 2 x 0.62 (AWG22)	FRNC/LS0H	black	12.0	167	34.9	1.98 MJ/m	0.55	by the metre