

CU 7725 4P / 2x4P F8

Data cable, S/FTP, 25GBase-T, 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/LS0H



Description

Electrically and mechanically superior quality Cat.7A data cable with extended frequency range up to 1300 MHz - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, IEC 61156-7, EN 50173-1 and EN 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

High-end data cable for data centres and for structured premises cabling.

For the transmission of digital and analogue voice, video and data signals.

Suitable for all ICT network applications up to 25GBase-T (1250 MHz) up to 50 m (Channel) and up to class FA (1000 MHz) up to 100 m in accordance with EN 50173-1 and ISO/IEC 11801 as well as for multimedia applications in the CATV frequency range up to 862 MHz in accordance with IEC 15018.

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

General properties

Field of application	Indoor
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	orange
Outer sheath material	FRNC/LSZH
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»

Electrical properties

Category	Cat.7 _A
Coupling attenuation	85 dB
Delay skew	15 ns/100 m
Gbit/s	Up to 25 Gbit/s (max. length 50 m)
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
800		49						
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

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	64 mm
Minimum bending radius permanently installed	32 mm
Minimum number of impacts	10
Tensile strength (2x4P)	240 N
Tensile strength (4P)	120 N

Standards

Cat./Class	Cat.7 _A / Class F _A
PoE	IEEE 802.3bt Type 4 (100W)
Reaction to fire (Euroclasses)	EN 13501-6: B2 _{ca}
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
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
19434900BK	CU 7725 4P	B2ca-s1a,d1,a1	4 x 2 x 0.62 (AWG22)	7.6		62		1000 m drum	40393910022933
19434900BL	CU 7725 4P	B2ca-s1a,d1,a1	4 x 2 x 0.62 (AWG22)			62		500 m drum	40393910022926
19435002BL	CU 7725 2x4P	B2ca-s1b,d1,a1	2 x (4 x 2 x 0.62 (AWG22))	7.6 x 16.2	69.8	125	0.36	500 m drum	40393910022827

Subject to technical modification

As of 2023-05-17 09:11:59