

CU 7725 4P / 2x4P F8

Data cable, S/FTP, 25GBase-T, AWG22, Euroclass B2ca



- 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

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, $\pm 5\Omega$	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

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 - up to 1250MHz for 25GBase-T Application up to 50m with limit values as specified by ISO/IEC 11801-9905 and IEC 61156-5, 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]	Weight [kg/km]	Packing unit
19434900BK	CU 7725 4P	B2ca-s1a,d1,a1	4 x 2 x 0.62 (AWG22)	orange	7.6	62	1000 m drum
19434900BL	CU 7725 4P	B2ca-s1a,d1,a1	4 x 2 x 0.62 (AWG22)	orange		62	500 m drum
19435002BL	CU 7725 2x4P	B2ca-s1b,d1,a1	2 x (4 x 2 x 0.62 (AWG22))	orange		125	500 m drum