CU 7150 4P / 2x4P F8 Multimedia

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

1500 MHz

1 Inner conductor: AWG22 Bare copper wire
2 PE insulated conductor: 1.6 mm Ø
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 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

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 FA applications (1000 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.
Optimized 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+.

Construction

Outer sheath material	FRNC/LSZH
Outer sheath colour	orange

General properties

Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +60 °C
Wire colour	white/blue-white, white/orange-white, white/green-white, white/brown-white (with length stripes)
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Field of application	Indoor

Electrical properties

Category	Cat.7_A
GBit/s	Up to 10 Gbit/s
Loop resistance at 20 °C	111 Ω/km
Operating capacity	41 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	80
Delay skew	17 ns/100 m
Shielding	shielded
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
Transfer impedance 1/10/30 MHz	< 5/5/8 mΩ/m
Coupling attenuation	85 dB
Segregation class	d

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	110	26
4		3.3	103	100	100	97	108	30
10		4.9	103	100	98	95	106	33
100	5e	16.2	103	100	87	84	94	33
250	6	26	103	100	77	74	84	28
500	6_A	38	98	95	60	57	71	26
600	7	40	96	93	56	53	66	25
862		49	92	89	43	40	58	24
1,000	7_A	54	90	87	36	33	55	23
1,200	61156-7	58	85	82	27	24	46	23
1,500		68	80	77	12	9	41	20

The performance data given are typical measured values.

Mechanical properties

Solid / Flex	Solid wire
AWG	22
Minimum bending radius (permanently installed)	32 mm
Minimal crush resistance / 10cm	1,000 N
Minimum bending radius (during installation)	64 mm
Minimum number of impacts	10

Standards

Reaction to fire	EN 13501-6
Euroclass	$B2_{ca}$
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Section 4.3.3 SD
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Section 4.3.3 SA
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Section 4.3.3 F1
Flame spread	IEC 60332-3-24, EN 60332-3-24, AREI-RGIE Section 4.3.3 F2
Cables standard	ISO/IEC 61156-5, EN 50288-9-1
Cat./Class	$Cat.7_A$ / Class F_A
PoE	IEEE 802.3bt Type 4 (100W)

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
18292500BK	CU 7150 4P	B2ca-s1a,d1,a1	4 x 2 x 0.64 (AWG22)	7.4	40.2	61.1	0.140	1000 m drum	40393910040463
18292600BL	CU 7150 2x4P	B2ca-s1a,d1,a1	2 x (4 x 2 x 0.64 (AWG22))	16	80.4	134.3	0.36	500 m drum	40393910040371