

CU 7080 4P / 2x4P F8

Data cable, S/FTP, Category 7, AWG23, Euroclass Dca



- 1 Inner Conductor: AWG23 Bare copper wire
- 2 PE insulated conductor: 1.4 Ø
- 3 Screen (pair): Alu PETP foil
- 4 Overall screen: Tinned braided copper
- 5 Outer sheath: FRNC/LSOH



Description

Electrically and mechanically superior quality Cat.7 data cable - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-4-1.

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.

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 F applications (600 MHz) in accordance with EN 50173-1 and ISO/IEC 11801 and for the transmission of broadband signals (such as cable TV) in accordance with IEC 15018.

Applicable for Power over Ethernet PoE / PoE+ / 4PPoE up to 100W.

General Properties

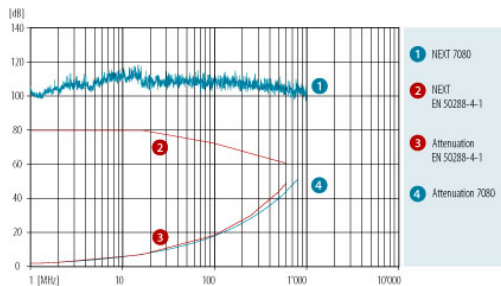
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +60 °C
Wire colour	white - blue/blue, white orange/orange, white green/green, white brown/brown in acc. with IEC 60189 and IEC 60708 (ring marked)

Electrical properties

Category	Cat.7
Coupling attenuation	85 dB
Delay Skew	12 ns/100 m
EMC	shielded
Impedance at 100 MHz, $\pm 5\Omega$	100 Ω
Loop resistance at 20°C	140 Ω /km
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
NVP %	81
operating capacity	42 pF/m
Segregation class	d

Transfer impedance 1/10/30 MHz

< 6/6/10 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		1.9	100	97	98	95	98	26
4		3.6	100	97	96	93	98	30
10		5.6	100	97	94	91	98	33
100	5e	17.9	100	97	82	79	78	33
250	6	28	100	97	72	69	69	28
500	6 _A	41	92	89	58	55	56	26
600	7	46	90	87	44	41	45	25
800		52	84	81	32	29	39	23
862		54	83	80	29	26	37	22
1,000		57	80	77	23	20	33	20

Mechanical properties

Minimal crush resistance / 10cm	1,000 N
Minimum bending radius during installation	60 mm
Minimum bending radius permanently installed	30 mm
Minimum number of impacts	10
Solid / Flex	Solid wire
Tensile strength (2x4P)	220 N
Tensile strength (4P)	110 N

Standards

Cat./Class	Cat 7 / Class F - limit values as specified by IEC 61156-5 and EN 50288-4-1 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]	Bending radius [mm]	Outer sheath dimensions [mm]	CU rate [kg/ km]	Weight [kg/ km]	Tensile load [N]	Fire load [kWh/m]	Packing unit
18291100DK	CU 7080 4P	Dca-s2,d1,a1	4 x 2 x 0.57 (AWG23)	orange	7.2	30		31.1	55	110	0.16	1000 m drum
18291101DK	CU 7080 4P	Dca-s1,d2,a1	4 x 2 x 0.57 (AWG23)	orange	7.2	30		31.1	55	110	0.16	1000 m drum
18291102DK	CU 7080 4P	Dca-s2,d2,a1	4 x 2 x 0.57 (AWG23)	orange	7.2	30		31.1	55	110	0.16	1000 m drum

Material number	Product	Reaction To Fire	Dimensions n x p x [mm (AWG)]	Outer sheath colour	Outer sheath diameter [mm]	Bending radius [mm]	Outer sheath dimensions [mm]	CU rate [kg\ km]	Weight [kg\ km]	Tensile load [N]	Fire load [kWh\m]	Packing unit
18291100DL	CU 7080 4P	Dca-s2,d1,a1	4 x 2 x 0.57 (AWG23)	orange	7.2	30		31.1	55	110	0.16	500 m drum
18291101DL	CU 7080 4P	Dca-s1,d2,a1	4 x 2 x 0.57 (AWG23)	orange	7.2	30		31.1	55	110	0.16	500 m drum
18291200DL	CU 7080 2x4P	Dca-s2,d1,a1	2 x (4 x 2 x 0.57 (AWG23))	orange		30	7.2 x 15.4	62.2	110	220	0.32	500 m drum
18291201DL	CU 7080 2x4P	Dca-s1,d2,a1	2 x (4 x 2 x 0.57 (AWG23))	orange		30	7.2 x 15.4	62.2	111	220	0.32	500 m drum
18291202DL	CU 7080 2x4P	Dca-s2,d2,a1	2 x (4 x 2 x 0.57 (AWG23))	orange		30	7.2 x 15.4	62.2	110	220	0.32	500 m drum

Subject to technical modification

As of 2021-01-11 07:18:34