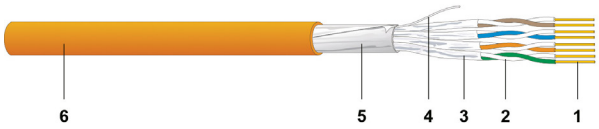
CU 6052 4P / 2x4P F8

Data cable, F/FTP, Category 6, AWG23, Euroclass C_{ca}

300 MHz



1 Inner conductor: AWG23 Bare copper wire
2 PE insulated conductor: 1.3 mm Ø
3 Screen (pair): Alu PETP foil
4 Overall screen: Alu PETP foil
5 Drain wire: Tinned copper wire
6 Outer sheath: FRNC/LSOH Orange RAL 2003

Description

Electrically and mechanically superior quality Cat.6 data cable - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-5-1.
Good shielding effect due to individually screened pairs and overall foil screen.
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 E applications (250 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.
Applicable 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/orange, white/green, white/brown, according to IEC 60189 and IEC 60708
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Field of application	Indoor

Electrical properties

Category	Cat.6
GBit/s	Up to 1 Gbit/s
Loop resistance at 20 °C	150 Ω/km
Operating capacity	42 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	79
Delay skew	5 ns/100 m
Shielding	shielded
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
Transfer impedance 1/10/30 MHz	< 50/100/200 mΩ/m
Coupling attenuation	65 dB
Segregation class	c

Frequency [MHz]	Category	Attenuation [dB]	NEXT [dB]	PS-NEXT [dB]	ACR-N [dB]	PS-ACR-N [dB]	ACR-F [dB]	Return Loss [dB]
1		2.1	93	90	91	88	96	26
4		3.8	93	90	89	86	96	28
10		5.9	93	90	87	84	96	30
100	5e	19.8	93	90	73	70	74	30
250	6	30	83	80	53	50	56	27
300		32	80	79	48	45	49	26

The performance data given are typical measured values.

Mechanical properties

Solid / Flex	Solid wire
AWG	23
Minimum bending radius (permanently installed)	28 mm
Minimal crush resistance / 10cm	1,000 N
Minimum bending radius (during installation)	56 mm
Minimum number of impacts	10

Standards

Reaction to fire	EN 13501-6
Euroclass	C_{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 50288-5-1
Cat./Class	Cat.6 / Class E
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
18851200CK	CU 6052 4P	Cca-s1a,d1,a1	4 x 2 x 0.55 (AWG23)	7	20.0	48.4	0.144	1000 m drum	40393910034370

Subject to technical modification

As of 2024-02-19 13:57:41