

CU 8203 4P

Data cable, S/FTP, Category 8.2, AWG23, Euroclass Dca

2000 MHz



- 1 Inner conductor: AWG23 Bare copper wire
- 2 PE insulated conductor: 1.6 mm & empty;
- 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.8.2 data cable - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1, EN 50288-12-1 and IEC 61156-9.

Excellent shielding effect due to individually screened pairs and overall copper braid.

Compact cable design.

Compatible with all current connecting hardware in accordance with EN 50173 and ISO/IEC 11801.

Application

High-end data cable for data centres.

Developed particularly for 40 GBase-T transmission with maximum channel length of 30 metres in End of Row or Top of Rack (EoR / ToR) applications in data centres.

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

Suitable for all ICT network applications up to 2000 MHz.

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, 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.8.2
Gbit/s	Up to 40 Gbit/s
Loop resistance at 20 °C	135 Ω/km
Operating capacity	44 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	75
Delay skew	10 ns/100 m
Shielding	shielded
Near end unbalance attenuation LCL at 1-600 MHz	20 dB
Transfer impedance 1/10/30 MHz	< 8/10/40 mΩ/m
Coupling attenuation	75 dB
Segregation class	d

Frequency [MHz]	Category	Attenuation [dB] (30M)	NEXT [dB]	PS-NEXT [dB]	ACR-N [dB]	PS-ACR-N [dB]	ACR-F [dB]	Return Loss [dB]
1		0.54	103	100	102	99	100	28
4		0.95	103	100	102	99	100	30
10		1.5	103	100	101	99	100	30
100	5e	5.0	103	100	98	95	95	30
250	6	8.0	97	94	89	86	92	28
500	6 _A	11.3	95	92	84	81	89	26
600	7	12.5	94	91	80	77	87	25
862		15.6	92	89	77	74	80	24
1,000	7 _A	16.3	90	77	74	71	78	23
1,600		21.0	85	82	64	61	72	20
2,000		23.5	80	77	56	53	70	18

The performance data given are typical measured values.

Mechanical properties

Solid / Flex	Solid wire
AWG	23
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	3

Standards

Reaction to fire	EN 13501-6
Euroclass	D _{ca}
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2
Flame spread	IEC 60332-3-24, EN 60332-3-24
Cables standard	ISO/IEC 61156-9, EN 50288-12-1
Cat./Class	Cat.8.2 / Class I/II
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
19200900DK	CU 8203 4P	Dca-s2,d1,a1	4 x 2 x 0.59 (AWG23)	8.1	33.2	66.4	0.20	1000 m drum	40393910028713