

CU 8203 4P

Data cable, S/FTP, Category 8.2, AWG23, Euroclass B2ca



- 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+).

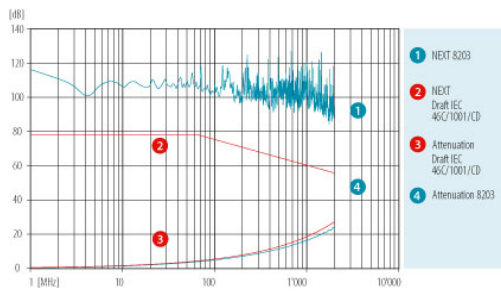
General Properties

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.8.2
Coupling attenuation	75 dB
Delay Skew	10 ns/100 m
EMC	shielded
Impedance at 100 MHz, $\pm 5\Omega$	100 Ω
Loop resistance at 20°C	135 Ω /km
Near end unbalance attenuation LCL at 1-600 MHz	20 dB
NVP %	75
operating capacity	44 pF/m

Segregation class	d
Transfer impedance 1/10/30 MHz	< 8/10/40 mΩ/m



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		72	20
2,000		23.5	80	77	56	53	70	18

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	3
Solid / Flex	Solid wire
Tensile strength (4P)	110 N

Standards

Cat./Class	Cat.8.2 (IEC 46C/1001/CD, draft, for channel length of 30 m)
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
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
Smoke Density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2

Versions

Material number	Product	Reaction To Fire	Dimensions n x p x [mm (AWG)]	Outer sheath colour	Outer sheath diameter [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit
19200900BK	CU 8203 4P	B2ca-s1a,d1,a1	4 x 2 x 0.59 (AWG23)	orange	8.1	33.2	67	0.18	1000 m drum