

CU 8203 4P

Data cable, S/FTP, Category 8.2, AWG23



- 1 Inner conductor:** AWG23 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.8.2 data cable – exceeds the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1, EN 50288-9-1 and IEC 46C/1001/CD (draft).

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+).

ELECTRICAL CHARACTERISTICS

Category				5e	6	6 _A	7	CATV	7 _A		8.2
Frequency [MHz]	1	4	10	100	250	500	600	862	1000	1600	2000
Attenuation [dB/30m]	0.54	0.95	1.5	5.0	8.0	11.3	12.5	15.6	16.3	21.0	23.5
NEXT [dB]	103	103	103	103	97	95	94	92	90	85	80
PS NEXT [dB]	100	100	100	100	94	92	91	89	77	82	77
ACR-N [dB]	102	102	101	98	89	84	80	77	74	64	56
PS-ACR-N [dB]	99	99	99	95	86	81	77	74	71	61	53
ACR-F [dB]	100	100	100	95	92	89	87	80	78	72	70
PS-ACR-F [dB]	97	97	97	92	89	86	84	77	75	69	67
Return loss [dB]	28	30	30	30	28	26	25	24	23	20	18

These performance data are typical measured values.

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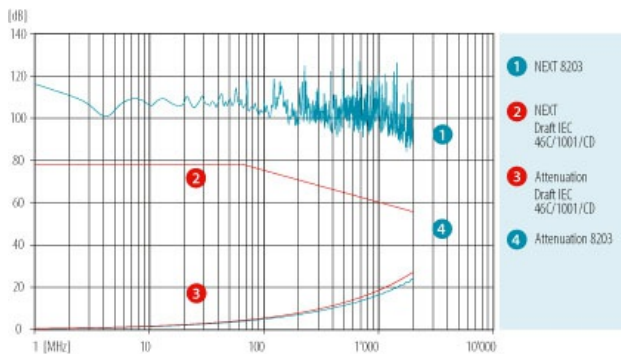
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MECHANICAL PROPERTIES

Bending radius (flat side)	during draw-in:	≥ 64 mm
	permanently installed:	≥ 32 mm
Tensile strength:		≤ 110 N
Crush resistance:		≥ 1000 N/10 cm
Impact resistance:		≥ 3 impacts
Temperature range	during installation:	0 °C to +50 °C
	in operation:	-20 °C to +60 °C

ELECTRICAL PROPERTIES



Loop resistance at 20° C:	135 Ω/km
Mutual capacitance:	44 pF/m
Impedance at 100 MHz:	100 Ω ±5 Ω
Transfer impedance at 1/10/30 MHz:	< 8/10/40 mΩ/m
Coupling attenuation (limit curve of critical state - IEC 61156):	> 75 dB
Near end unbalance attenuation LCL at 1-600 MHz :	> 20 dB
Delay skew:	10 ns/100 m
NVP:	75 %

STANDARDS

Wire colour	white-blue/blue white-orange/orange white-green/green white-brown/brown (with longitudinal stripes) in accordance with IEC 60189 and IEC 60708
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Zero halogen, no corrosive gases	IEC 60754-1/-2, EN 50267-2-1/-2-2, VDE 0482-267-2-1/-2-2
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
PoE	IEEE 802.3at
EMC	shielded
Cat./Class	Cat.8.2 (IEC 46C/1001/CD, draft, for channel length of 30 m)

VERSIONS

Article Number	Product	Sheath	Sheath Ø [mm]	Sheath colour	Weight [kg/km]	Cu rate [kg/km]	Fire load [MJ/m]	Fire load [kWh/m]	Dimension n x p x [mm (AWG)]	PU
192009	CU 8203 4P	FRNC/LSOH	8.1	orange	67.3	33.2	0.649	0.18	4 x 2 x 0.59 (AWG23)	1000 m drum