

# CU 502 4P

Data cable, U/UTP, Category 5e, AWG24



- 1 Inner conductor:** AWG24 Bare copper wire
- 2 PE insulated conductor:** 0,94 mm Ø PE
- 3 Outer sheath:** FR/PVC grey RAL 7037, FRNC/LS0H orange RAL 2003



## DESCRIPTION

Electrically and mechanically advanced quality Cat 5e data cable - fulfils the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-3-1.

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 D applications (100 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.

Applicable for Power over Ethernet (PoE) / PoE+.

## ELECTRICAL CHARACTERISTICS

Category	1	4	10	5e	125
Frequency [MHz]	1	4	10	100	125
Attenuation [dB/100m]	1.9	3.7	6.0	19.8	22.3
NEXT [dB]	71	61	55	40	39
PS NEXT [dB]	68	58	52	37	36
ACR-N [dB]	69	57	49	20	17
PS-ACR-N [dB]	66	54	46	17	14
ACR-F [dB]	76	68	57	34	32
PS-ACR-F [dB]	73	65	54	31	29
Return loss [dB]	26	29	30	27	26

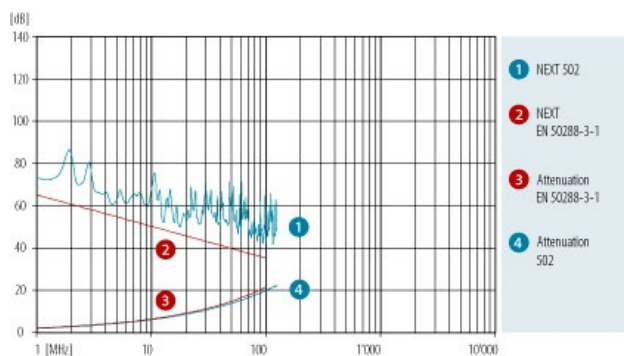
These performance data are typical measured values.

## MECHANICAL PROPERTIES

Bending radius	during draw-in:	≥ 44 mm
	permanently installed:	≥ 22 mm
Tensile strength:		≤ 87 N
Temperature range	during installation:	0° C to + 50° C
	in operation:	-20° C to + 60° C

## ELECTRICAL PROPERTIES

Loop resistance at 20° C:	170 Ω/km
Mutual capacitance:	50 pF/m
Impedance at 100 MHz:	100 Ω ±5 Ω
TCL:	≥ 50 db - 10 x lgf
NVP:	69 %



## STANDARDS

Wire colour	white - blue/blue white - orange/orange white - green/green white - brown/brown in accordance with IEC 60189 and IEC 60708 (ring marked)
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, AREI-RGIE Art.104-SA - applies to FRNC/LSOH
Flame propagation	IEC 60332-1/-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Art.104-F1
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD - applies to FRNC/LSOH
PoE	IEEE 802.3af
Cat./Class	Cat 5e / Class D - limit values as specified by IEC 61156-5 and EN 50288-3-1 guaranteed
Segregation class	b

## 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
240130	CU 502 FR/PVC 4P	5.5	grey	33.6	18.1	0.49	0.14	4 x 2 x 0,51 (AWG24)	305 m pull quick
240150	CU 502 FR/PVC 4P	5.5	grey	33.6	18.1	0.49	0.14	4 x 2 x 0,51 (AWG24)	305 m reel in box
240131	CU 502 FR/PVC 4P	5.5	grey	33.6	18.1	0.49	0.14	4 x 2 x 0,51 (AWG24)	500 m drum
240132	CU 502 FR/PVC 4P	5.5	grey	33.6	18.1	0.49	0.14	4 x 2 x 0,51 (AWG24)	1000 m drum
240133	CU 502 FRNC/LSOH 4P	5.5	orange	33.8	18.1	0.43	0.12	4 x 2 x 0,51 (AWG24)	305 m pull quick
240151	CU 502 FRNC/LSOH 4P	5.5	orange	33.8	18.1	0.43	0.12	4 x 2 x 0,51 (AWG24)	305 m reel in box
240134	CU 502 FRNC/LSOH 4P	5.5	orange	33.8	18.1	0.43	0.12	4 x 2 x 0,51 (AWG24)	500 m drum
240135	CU 502 FRNC/LSOH 4P	5.5	orange	33.8	18.1	0.43	0.12	4 x 2 x 0,51 (AWG24)	1000 m drum