

# CU 662 4P

Data cable, U/UTP, Category 6, AWG24, Euroclass E<sub>ca</sub>



- 1 Inner conductor: AWG24/0,55 mm Bare Copper wire
- 2 PE insulated conductor: 0.98 mm Ø PE
- 3 Pair separator
- 4 Outer sheath: FRNC/LSoH orange RAL 2003, FR/PVC grey RAL 7037



## DESCRIPTION

Electrically and mechanically advanced quality Cat.6 data cable - fulfils the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-6-1.

Robust cable design with reliable electrical performance thanks to stabilising element.

Very good NEXT reserve due to cable construction with a pair separator (cross).

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+.

## ELECTRICAL CHARACTERISTICS

Category	1	4	10	5e	6	300
Frequency [MHz]	1	4	10	100	250	300
Attenuation [dB/100m]	1.8	3.6	5.6	18.1	29.1	31.5
NEXT [dB]	85	80	73	59	52	50
PS NEXT [dB]	82	77	70	56	49	47
ACR-N [dB]	83	76	67	41	23	18
PS-ACR-N [dB]	80	73	64	38	20	15
ACR-F [dB]	86	78	67	47	37	33
PS-ACR-F [dB]	83	75	64	45	34	30
Return loss [dB]	27	32	32	30	25	25

These performance data are typical measured values.

## ELECTRICAL PROPERTIES

Loop resistance at 20° C:	155 Ω/km
Mutual capacitance:	50 pF/m
Impedance at 100 MHz:	100 Ω ±5 Ω
TCL:	≥ 50 db - 10 x lgf
Delay Skew:	20 ns/100 m
NVP:	67 %

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## MECHANICAL PROPERTIES

Bending radius	during draw-in:	≥ 45 mm
	permanently installed:	≥ 22,5 mm
Tensile strength:		≤ 91 N
Crush resistance:		≥ 1000 N/10 cm
Impact:		≥ 10 impacts
Temperature range	during installation:	0° C to + 50° C
	in operation:	-20° C to + 60° C

## 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 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Art.104-SA - applies to FRNC/LS0H
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/LS0H
Reaction to fire (Euroclasses)	EN 13501-6: <b>E<sub>ca</sub></b>
Segregation class	b
Cat./Class	Cat 6 / Class E - limit values as specified by IEC 61156-5 and EN 50288-6-1 guaranteed

## VERSIONS

Article No.	DoP	Product	Sheath	Sheath Ø [mm]	Sheath colour	Weight [kg/km]	Cu rate [kg/km]	Fire load [MJ/m]	Fire load [kWh/m]	Dimensions n x p x [mm (AWG)]	PU
240129		CU 662 4P	FRNC/LS0H	6.0	orange	43	19.4	0.60	0.17	4 x 2 x 0,55 (AWG24)	305 m PullQuick box
240136		CU 662 4P	FR/PVC	6.0	grey	39.8	19.4	0.72	0.20	4 x 2 x 0,55 (AWG24)	305 m PullQuick box
240137		CU 662 4P	FR/PVC	6.0	grey	39.8	19.4	0.72	0.20	4 x 2 x 0,55 (AWG24)	500 m drum
240139		CU 662 4P	FR/PVC	6.0	grey	39.8	19.4	0.72	0.20	4 x 2 x 0,55 (AWG24)	1000 m drum
240140		CU 662 4P	FRNC/LS0H	6.0	orange	43	19.4	0.60	0.17	4 x 2 x 0,55 (AWG24)	500 m drum
240141		CU 662 4P	FRNC/LS0H	6.0	orange	43	19.4	0.60	0.17	4 x 2 x 0,55 (AWG24)	1000 m drum
240148		CU 662 4P	FR/PVC	6.0	grey	39.8	19.4	0.72	0.20	4 x 2 x 0,55 (AWG24)	305 m reel in box
240149		CU 662 4P	FRNC/LS0H	6.0	orange	43	19.4	0.60	0.17	4 x 2 x 0,55 (AWG24)	305 m reel in box