CU 662 4P

Data cable, U/UTP, Category 6, AWG24

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

DESCRIPTION

Electrically and mechanically high-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 premesis 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				**5e**	**6**	
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.

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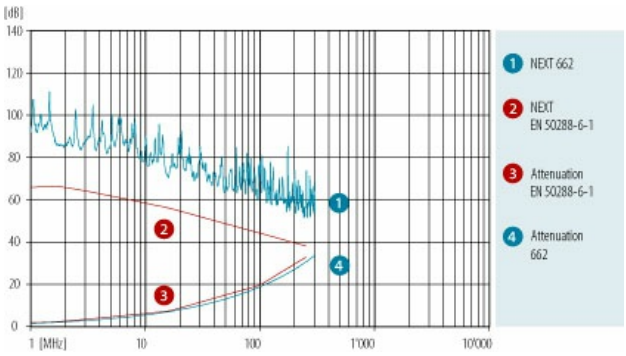
ELECTRICAL PROPERTIES

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 lg*f*
Delay Skew:	20 ns/100 m
NVP:	67 %



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»
LS0H	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 6 / Class E - limit values as specified by IEC 61156-5 and EN 50288-5-1 guaranteed

VERSIONS

Article No.	Product	Dimension n x n x mm (AWG)	Sheath colour	Sheath	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Fire load [kWh/m]	Fire load [MJ/m]	PU
240136	CU 662 4P	4 x 2 x 0,55 (AWG24)	grey	FR/PVC	6.0	39.8	19.4	0.20	0.72	305 m pull quick
240148	CU 662 4P	4 x 2 x 0,55 (AWG24)	grey	FR/PVC	6.0	39.8	19.4	0.20	0.72	305 m reel in box
240137	CU 662 4P	4 x 2 x 0,55 (AWG24)	grey	FR/PVC	6.0	39.8	19.4	0.20	0.72	500 m drum

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240139	CU 662 4P	4 x 2 x 0,55 (AWG24)	grey	FR/PVC	6.0	39.8	19.4	0.20	0.72	1000 m drum
240129	CU 662 4P	4 x 2 x 0,55 (AWG24)	orange	FRNC/LS0H	6.0	43	19.4	0.17	0.60	305 m pull quick
240149	CU 662 4P	4 x 2 x 0,55 (AWG24)	orange	FRNC/LS0H	6.0	43	19.4	0.17	0.60	305 m reel in box
240140	CU 662 4P	4 x 2 x 0,55 (AWG24)	orange	FRNC/LS0H	6.0	43	19.4	0.17	0.60	500 m drum
240141	CU 662 4P	4 x 2 x 0,55 (AWG24)	orange	FRNC/LS0H	6.0	43	19.4	0.17	0.60	1000 m drum