



- 1 Inner conductor:** AWG24 / 0.54 mm Bare Copper wire
- 2 PE insulated conductor:** 0.98 mm Ø PE
- 3 Pair separator**
- 4 Outer sheath:** FRNC/LS0H 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. Made in Europe

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	29.9	33
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

Category:	Cat.6
Delay Skew:	30 ns/100m
Impedance at 100 MHz, ±5Ω:	100 Ω
Loop resistance at 20°C:	155 Ω/km
NVP %:	67
operating capacity:	50 pF/m
TCL:	50 dB

MECHANICAL PROPERTIES

Minimum bending radius during installation:	45 mm
Minimum bending radius permanently installed:	22.5 mm
Tensile strength (4P):	91 N
Minimal crush resistance / 10cm:	1,000 N
Minimum number of impacts:	10
Installation temperature:	0 °C - +50 °C
Operating temperature:	-20 °C - +60 °C

STANDARDS

Wire colour	white - blue/bluewhite - orange/orangewhite - green/greenwhite - 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
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2

CU 662 4P (ME)
Data cable, U/UTP, Category 6, AWG24



Smoke density IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2 - applies to FRNC/LS0H
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.	Product	Dimensions n x p x [mm (AWG)]	Sheath	Sheath colour	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Fire load [MJ/m]	Fire load [kWh/m]	PU
240170	CU 662 4P	4 x 2 x 0.54 (AWG24)	FR/PVC	grey	6	50	19.4	0.72 MJ/m	0.20	305 m PullQuick box
240171	CU 662 4P	4 x 2 x 0.54 (AWG24)	FRNC/LS0H	orange	6	50	19.4	0.60 MJ/m	0.17	305 m PullQuick box