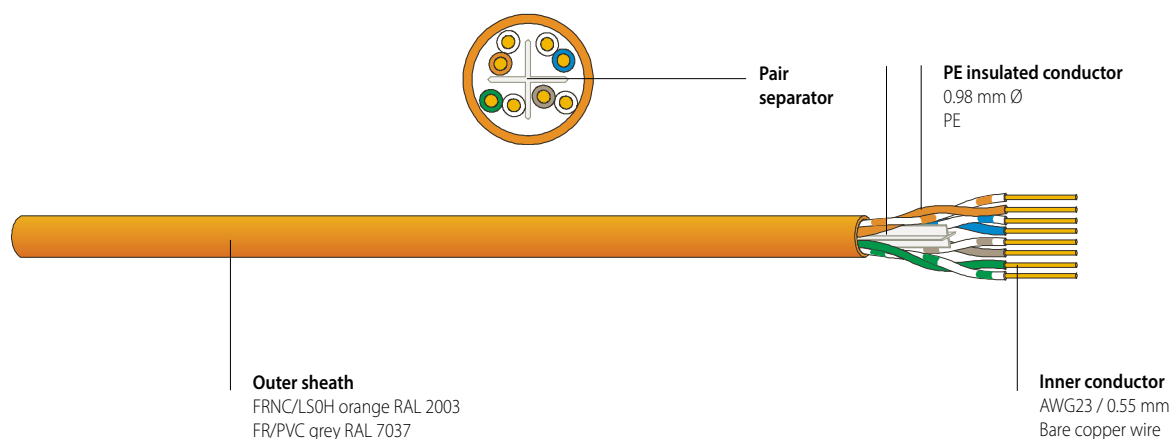


Data cable, U/UTP, Category 6, AWG23

CU 662 4P



PRODUCT INFORMATION



FEATURES

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.

APPLICATIONS

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+.

VERSIONS

Article No.	Dimension n x n x mm (AWG)	Sheath	Sheath Ø mm	Weight kg/km	CU weight kg/km	Fire load		PU
						kWh/m	MJ/m	
240562	4 x 2 x 0.55 (AWG23)	FR/PVC ¹⁾	6.0	39.8	19.4	0.20	0.72	305 m pull quick
240563	4 x 2 x 0.55 (AWG23)	FRNC/LSOH ²⁾	6.0	43	19.4	0.17	0.60	305 m pull quick

¹⁾ FR/PVC = Flame Retardant / Polyvinyl Chloride

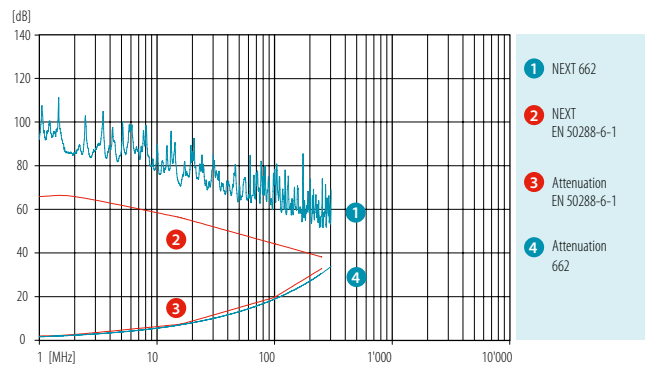
²⁾ FRNC/LSOH = Flame Retardant Non Corrosive / Low Smoke Zero Halogen

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.

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 %



MECHANICAL CHARACTERISTICS

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

GENERAL CHARACTERISTICS

Wire colour code
 white - blue/blue
 white - orange/orange
 white - green/green
 white-brown/brown (ring marked)
 in accordance with IEC 60189 and IEC 60708

Imprint
 DATWYLER «cable type» «additional text» «batch number» «meter marks»

Zero halogen
 non corrosive gases
 Flame propagation
 Smoke density

Power over Ethernet
 Segregation class
 Cat./Class

IEC 60754-1/-2, EN 50267-2-1/-2-2
 (VDE 0482-267-2-1/-2-2) - applies to FRNC/LSOH
 IEC 60332-1-2, EN 60332-1-2 (VDE 0482-332-1-2)
 IEC 61034-1/-2, EN 61034-1/-2
 (VDE 0482-1034-1/-2) - applies to FRNC/LSOH
 IEEE 802.3af
 b
 Cat 6 / Class E - limit values as specified by IEC 61156-5
 and EN 50288-6-1 guaranteed