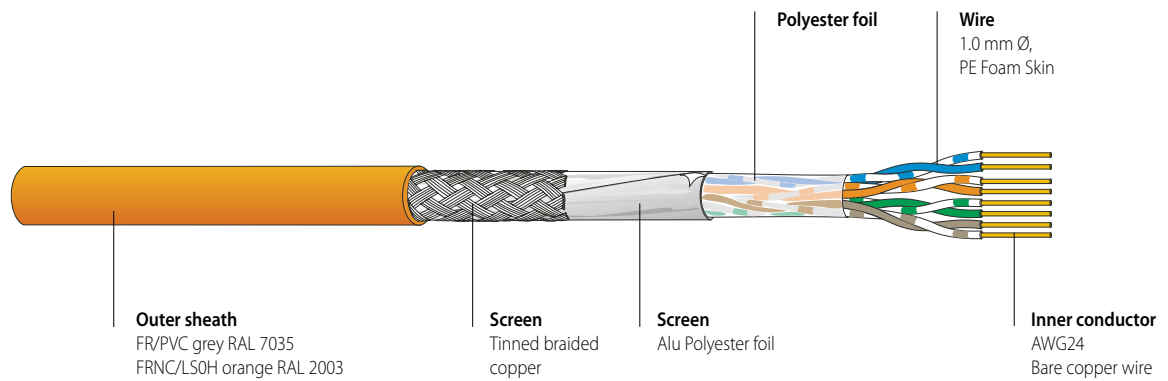


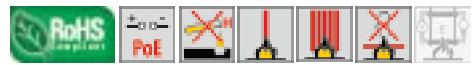
## SHIELDED DATA CABLE

# Data cable SF/UTP Cat.5e AWG24

CU 5502 4P



## PRODUCT INFORMATION



### FEATURES

Electrically and mechanically high-quality Cat 5e data cable - fulfils the requirements of ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-2-1. Excellent shielding effect due to overall foil and copper braid. 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 D applications (100 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	
181112	4 x 2 x 0.54 (AWG24)	FR/PVC <sup>1)</sup>	6.1	45.1	26.0	0.15	0.55	1000 m drum
181111	4 x 2 x 0.54 (AWG24)	FRNC/LSOH <sup>2)</sup>	6.1	45.9	26.0	0.13	0.44	1000 m drum

<sup>1)</sup> FR/PVC = Flame Retardant / Polyvinyl Chloride

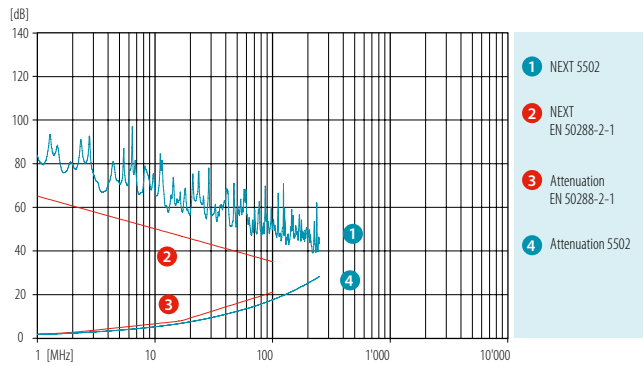
<sup>2)</sup> FRNC/LSOH = Flame Retardant Non Corrosive / Low Smoke Zero Halogen

**ELECTRICAL CHARACTERISTICS**

CATEGORY	5e				
Frequency [MHz]	1	4	10	100	250
Attenuation [dB/100m]	1.9	3.6	5.6	18.2	29
NEXT [dB]	75	70	65	44	40
PS NEXT [dB]	72	67	62	41	37
ACR-N [dB]	73	66	59	26	11
PS-ACR-N [dB]	70	63	56	23	8
ACR-F [dB]	84	69	63	41	31
PS-ACR-F [dB]	81	66	60	38	28
Return loss [dB]	27	31	31	28	24

These performance data are typical measured values.

Loop resistance at 20° C: 155 Ω/km  
 Mutual capacitance: 43 pF/m  
 Impedance at 100 MHz: 100 Ω ±5 Ω  
 Transfer impedance at 1/10/30 MHz: < 30/60/170 mΩ/m  
 Near end unbalance attenuation LCL : > 40 dB  
 Delay Skew: 8 ns/100 m  
 NVP: 76 %



**MECHANICAL CHARACTERISTICS**

Bending radius (flat side) during draw-in: ≥ 48 mm  
 permanently installed: ≥ 24 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  
 Flame spread  
 Smoke density  
 Power over Ethernet  
 EMC  
 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 60332-3-24, EN 60332-3-24 - applies to FRNC/LSOH  
 IEC 61034-1/-2, EN 61034-1/-2 (VDE 0482-1034-1/-2) - applies to FRNC/LSOH  
 IEEE 802.3af  
 shielded  
 better than Cat.5e / Class D