

# CU 7150 4P / 2x4P F8 Multimedia

Data cable, S/FTP, Category 7<sub>A</sub>, AWG22



- 1 Inner conductor:** AWG22 Bare copper wire
- 2 PE insulated conductor:** 1.6 mm Ø
- 3 Screen (pair):** Alu PETP foil
- 4 Overall screen:** Tinned braided copper
- 5 Outer sheath:** FRNC/LSOH orange RAL 2003



## DESCRIPTION

Electrically and mechanically superior quality Cat.7<sub>A</sub> data cable - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, IEC 61156-7, EN 50173-1 and prEN 50288-9-1.

Excellent shielding effect due to individually screened pairs and overall copper braid.

Easy identification of wires thanks to longitudinal colour markings.

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 F<sub>A</sub> applications (1000 MHz) in accordance with EN 50173-1 and ISO/IEC 11801.

Optimized for the transmission of broadband signals (such as cable TV) in accordance with IEC 15018.

Due to the increased wire section eminently suited for Power over Ethernet (PoE) / PoE+.

## ELECTRICAL CHARACTERISTICS

Category	5e	6	6 <sub>A</sub>	7	CATV	7 <sub>A</sub>	61156-7				
Frequency [MHz]	1	4	10	100	250	500	600	862	1000	1200	1500
Attenuation [dB/100 m]	1.7	3.2	4.9	16.2	26	38	40	49	54	58	68
NEXT [dB]	103	103	103	103	103	98	96	92	90	85	80
PS NEXT [dB]	100	100	100	100	100	95	93	89	87	82	77
ACR-N [dB]	101	100	98	87	77	60	56	43	36	27	12
PS-ACR-N [dB]	98	97	95	84	74	57	53	40	33	24	9
ACR-F [dB]	110	108	106	94	84	71	66	58	55	46	41
PS-ACR-F [dB]	107	105	103	91	81	68	63	55	52	43	38
Return loss [dB]	26	30	33	33	28	26	25	24	23	23	20

These performance data are typical measured values.

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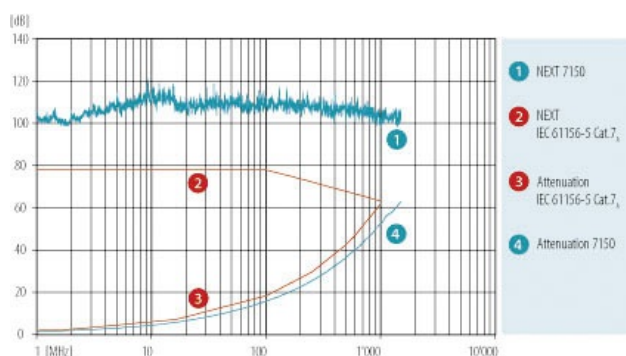
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## MECHANICAL PROPERTIES

		CU 7150 4P	CU 7150 2x4P F8
Bending radius (flat side)	during draw-in:	≥ 64 mm	≥ 64 mm
	permanently installed:	≥ 32 mm	≥ 32 mm
Tensile strength:		≤ 130 N	≤ 260 N
Crush resistance:		≥ 1000 N/10 cm	≥ 1000 N/10 cm
Impact resistance:		≥ 10 impacts	≥ 10 impacts
Temperature range	during installation:	0° C to + 50° C	0° C to + 50° C
	in operation:	-20° C to + 60° C	-20° C to + 60° C

## ELECTRICAL PROPERTIES



Loop resistance at 20° C:	111 Ω/km
Mutual capacitance:	41 pF/m
Impedance at 100 MHz:	100 Ω ± 5 Ω
Transfer impedance at 1/10/30 MHz:	< 5/5/8 mΩ/m
Coupling attenuation (limit curve of critical state - IEC 61156):	> 85 db
Near end unbalance attenuation LCL at 1-600 MHz:	> 40 db
Delay skew:	17 ns/100m
NVP:	80%

## STANDARDS

Wire colour	white-blue/blue white-orange/orange white-green/green white-brown/brown (with longitudinal stripes) in accordance with IEC 60189 and IEC 60708
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Zero halogen, no corrosive gases	IEC 60754-1/-2, EN 50267-2-1/-2-2, VDE 0482-267-2-1/-2-2, AREI-RGIE Art.104-SA
Flame propagation	IEC 60332-1/-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Art.104-F1
Flame spread	IEC 60332-3-24, EN 60332-3-24, AREI-RGIE Art.104-F2
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD
PoE	IEEE 802.3at
EMC	shielded
Cat./Class	Cat 7 <sub>A</sub> / Class F <sub>A</sub> - limit values as specified by IEC 61156-5, IEC 61156-7 and EN 50288-9-1
Segregation class	d

## VERSIONS

Article Number	Product	Sheath	Sheath Ø [mm]	Sheath colour	Weight [kg/km]	Cu rate [kg/km]	Fire load [MJ/m]	Fire load [kWh/m]	Dimension n x p x [mm (AWG)]	PU
182925	CU 7150 4P	FRNC/LSOH	7.8	orange	69.2	40.2	0.65	0.18	4 x 2 x 0.64 (AWG22)	1000 m

# CU 7150 4P / 2x4P F8 Multimedia

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	Multimedia									drum
182926	CU 7150 2x4P F8 Multimedia	FRNC/LS0H	7.8 x 16.4	orange	139.2	80.4	1.30	0.36	2 x (4 x 2 x 0.64 (AWG22))	500 m drum