

CU 7150 4P flex

Flexible data cable, S/FTP, Category 7_A, AWG26



- 1 Inner conductor:** AWG26, bare copper wire, stranded
- 2 PE insulated conductor:** Ø 0.99 mm
- 3 Screen (pair):** Alu PETP foil
- 4 Overall screen:** tinned braided copper
- 5 Outer sheath:** FR/PVC grey RAL 7035, LS0H different colours



DESCRIPTION

Electrically and mechanically superior quality Cat.7_A patch cord - exceeds the requirements of ISO/IEC 11801, IEC 61156-6, EN 50173-1, EN 50288-4-2 and prEN 50288-9-2.

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

Easy wire identification and termination due to different coloured wires.

Compatible with all current connecting hardware in accordance with EN 50173 and ISO/IEC 11801.

Optimised for RJ45 connecting systems.

Differently coloured sheaths facilitate clearly arranged installations and visual differentiation of services.

APPLICATION

As patch cord in patch panels and as equipment connection cable.

For the transmission of digital and analogue voice, video and data signals.

For flexible workstation cabling with long patch cords.

Especially suitable for CP (Consolidation Point) applications.

Suitable for all ICT network applications up to class F_A 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.

Applicable for Power over Ethernet (PoE) / PoE+.

ELECTRICAL CHARACTERISTICS

Category	1	4	10	5e	6	6 _A	7	CATV	7 _A	1200
Frequency [MHz]	1	4	10	100	250	500	600	862	1000	1200
Attenuation [dB/10m]	0.25	0.49	0.76	2.55	4.1	5.9	6.5	7.7	8.5	9.2
NEXT [dB]	100	100	100	100	95	92	90	90	90	90
PS NEXT [dB]	97	97	97	97	92	89	87	87	87	87
ACR-N [dB/10m]	100	99	99	97	91	86	83	82	81	80
PS-ACR-N [dB/10m]	97	96	96	94	88	83	80	79	78	77
ACR-F [dB/10m]	100	99	99	97	95	91	88	87	86	85
PS-ACR-F [dB/10m]	97	96	96	94	92	88	85	84	83	82
Return loss [dB]	26	32	35	30	27	24	23	21	20	19

These performance data are typical measured values.

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MECHANICAL PROPERTIES

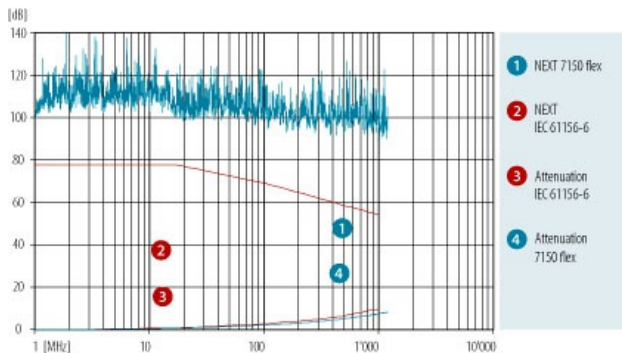
Bending radius:		≥ 20 mm
Repeated bending:		≥ 1000 cycles
Tensile strength:		≤ 56 N
Temperature range	during installation:	0° C to +50° C
	in operation:	-20° C to +60° C

NOTE

PVC versions available on request

ELECTRICAL PROPERTIES

Loop resistance at 20° C:	270 Ω/km
Mutual capacitance:	43 pF/m
Impedance at 100 MHz:	100 Ω ±5 Ω
Transfer impedance:	10 mΩ/m
Coupling attenuation (limit curve of critical state - IEC 61156):	> 70 dB
Near end unbalance attenuation LCL at 1-600 MHz:	> 40 dB
Delay Skew:	4 ns/100 m
NVP:	78 %



STANDARDS

Wire colour	white /blue red/orange black/green yellow/brown 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 - 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
EMC	shielded
Cat./Class	Cat 7 _A / Class F _A - limit values as specified by IEC 61156-6, EN 50288-4-2 and EN 50288-9-2
Segregation class	guaranteed c

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 [mm² PU (AWG)]
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191410	CU 7150 4P FRNC/LS0H 5.8 flex	grey	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum
on request	CU 7150 4P FRNC/LS0H 5.8 flex	orange	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum
on request	CU 7150 4P FRNC/LS0H 5.8 flex	black	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum
on request	CU 7150 4P FRNC/LS0H 5.8 flex	green	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum
on request	CU 7150 4P FRNC/LS0H 5.8 flex	yellow	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum
on request	CU 7150 4P FRNC/LS0H 5.8 flex	red	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum
on request	CU 7150 4P FRNC/LS0H 5.8 flex	blue	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum