

CU 7702 4P flex

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



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



DESCRIPTION

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

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, ISO/IEC 11801 and 60603-x.

APPLICATION

As patch cord in patch panels and as equipment connection cable, especially suitable for CP (Consolidation Point) applications. For the transmission of digital and analogue voice, video and data signals.

Suitable for all ICT network applications up to class F applications (600 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+.

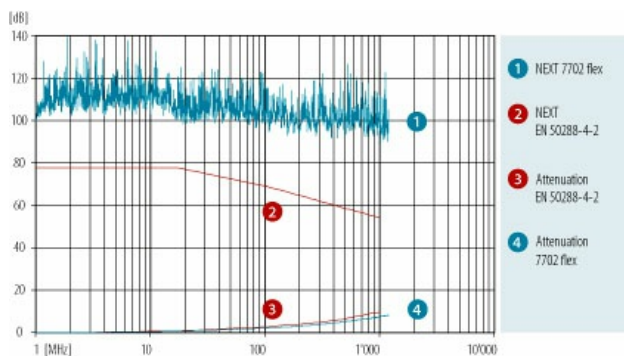
ELECTRICAL CHARACTERISTICS

Category			5e	6	6A	7			
Frequency [MHz]	1	4	10	100	250	500	600	800	862
Attenuation [dB/10m]	0.26	0.5	0.79	2.67	4.3	6.2	6.71	7.9	8.3
NEXT [dB]	100	100	100	100	95	92	90	90	90
ACR-N [dB/10m]	97	97	97	97	92	89	87	87	87
PS-ACR-N [dB/10m]	100	99	99	97	91	86	83	82	82
ACR-F [dB/10m]	97	96	96	94	88	83	80	79	79
PS-ACR-F [dB/10m]	100	99	99	97	95	91	88	87	87
PS ELFEXT [dB]	97	96	96	94	92	88	85	84	84
Return loss [dB]	26	32	35	30	27	24	23	21	21

These performance data are typical measured values.

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 %



MECHANICAL PROPERTIES

Bending radius:	≥ 20 mm
Repeated bending:	≥ 1000 cycles
Tensile strength max.:	56 N
Crush resistance max.:	600 N / 10 cm
Temperature range	during installation: 0° C to +50° C in operation: -20° C to +60° C

NOTE

PVC versions available on request

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 / Class F - limit values as specified by IEC 61156-6 and EN 50288-4-2 guaranteed

VERSIONS

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Article No.	Product	Dimension n x k [mm ² (AWG)]	Sheath colour	Sheath	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Fire load [kWh/m]	Fire load [MJ/m]	PU
179500	CU 7702 4P flex	4 x 2 x 0.132 (AWG26)	grey	FR/PVC	5.8	38.8	18.1	0.13	0.48	1000 m drum
181146	CU 7702 4P flex	4 x 2 x 0.132 (AWG26)	grey	FRNC/LS0H	5.8	39.5	18.1	0.11	0.38	1000 m drum
182784	CU 7702 4P flex	4 x 2 x 0.132 (AWG26)	orange	FRNC/LS0H	5.8	39.5	18.1	0.11	0.38	1000 m drum
182871	CU 7702 4P flex	4 x 2 x 0.132 (AWG26)	black	FRNC/LS0H	5.8	39.5	18.1	0.11	0.38	1000 m drum
182872	CU 7702 4P flex	4 x 2 x 0.132 (AWG26)	green	FRNC/LS0H	5.8	39.5	18.1	0.11	0.38	1000 m drum
181243	CU 7702 4P flex	4 x 2 x 0.132 (AWG26)	yellow	FRNC/LS0H	5.8	39.5	18.1	0.11	0.38	1000 m drum
182773	CU 7702 4P flex	4 x 2 x 0.132 (AWG26)	red	FRNC/LS0H	5.8	39.5	18.1	0.11	0.38	1000 m drum
182873	CU 7702 4P flex	4 x 2 x 0.132 (AWG26)	blue	FRNC/LS0H	5.8	39.5	18.1	0.11	0.38	1000 m drum
185655	CU 7702 4P flex	4 x 2 x 0.132 (AWG26)	purple	FRNC/LS0H	5.8	39.5	18.1	0.11	0.38	1000 m drum
188440	CU 7702 4P flex	4 x 2 x 0.132 (AWG26)	white	FRNC/LS0H	5.8	39.5	18.1	0.11	0.38	1000 m drum