

# CU 7702 4P flex

Flexible data cable, S/FTP, Category 7, AWG26, Euroclass D<sub>ca</sub>



- 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: FRNC/LS0H, various colours



## DESCRIPTION

Electrically and mechanically superior quality 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	6 <sub>A</sub>	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

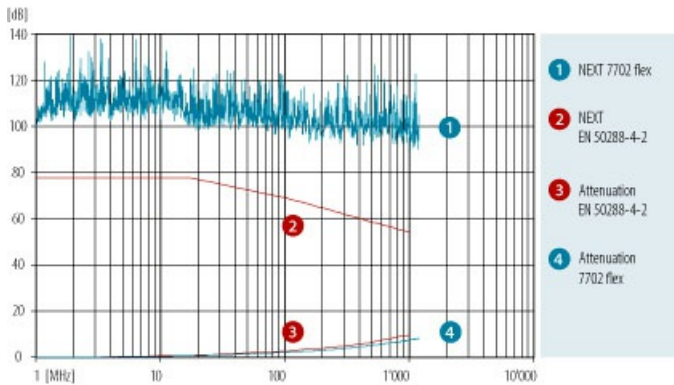
These performance data are typical measured values.

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## 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: also available

## 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 60754-1/-2, VDE 0482-754-1/-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
Reaction to fire (Euroclasses)	EN 13501-6: D <sub>ca</sub> -s2,d1,a1
PoE	IEEE 802.3af
EMC	shielded
Segregation class	c
Cat./Class	Cat 7 / Class F - limit values as specified by IEC 61156-6 and EN 50288-4-2 guaranteed

## VERSIONS

Article No.	DoP	Product	Sheath	Sheath Ø [mm]	Sheath colour	Weight [kg/km]	Cu rate [kg/km]	Fire load [MJ/m]	Fire load [kWh/m]	Dimensions n x p x [mm <sup>2</sup> (AWG)]	PU
181146		CU 7702 4P flex	FRNC/LSOH	5.8	grey	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum
18114600DZ		CU 7702 4P flex	FRNC/LSOH	5.8	grey	39.5	18.1	0.38	0.13	4 x 2 x 0.132 (AWG26)	by the metre
182784		CU 7702 4P flex	FRNC/LSOH	5.8	orange	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum
182871		CU 7702 4P flex	FRNC/LSOH	5.8	black	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum
181243		CU 7702 4P flex	FRNC/LSOH	5.8	yellow	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum
182872		CU 7702 4P flex	FRNC/LSOH	5.8	green	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum
182773		CU 7702 4P flex	FRNC/LSOH	5.8	red	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum
182873		CU 7702 4P flex	FRNC/LSOH	5.8	blue	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum
185655		CU 7702 4P flex	FRNC/LSOH	5.8	purple	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum
188440		CU 7702 4P flex	FRNC/LSOH	5.8	white	39.5	18.1	0.38	0.11	4 x 2 x 0.132 (AWG26)	1000 m drum