

# CU 7702 4P flex

Flexible data cable, S/FTP, Category 7, AWG26, Euroclass B2ca



- 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/LSOH, various colours



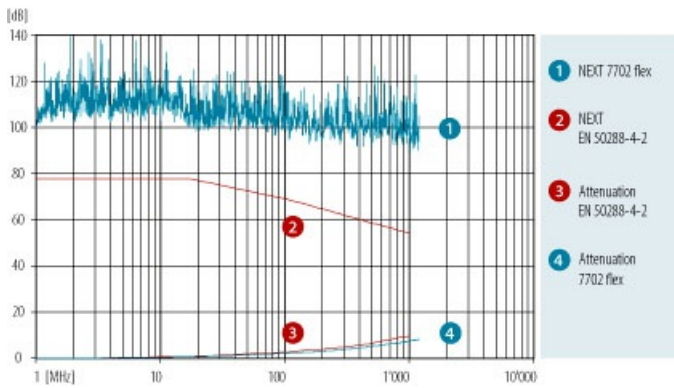
## DESCRIPTION

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+.

## GRAPH



## ELECTRICAL CHARACTERISTICS

Category	1	4	10	5e	6	6 <sub>A</sub>	7	800	862
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

Category:	Cat.7
Coupling attenuation:	70 dB
Delay Skew:	4 ns/100 m
Impedance at 100 MHz, $\pm 5\Omega$ :	100 $\Omega$
Loop resistance at 20°C:	< 270 $\Omega$ /km
Near end unbalance attenuation LCL at 1-600 MHz:	40 dB
NVP %:	78
operating capacity:	43 pF/m
Transfer impedance 1/10/30 MHz:	

## MECHANICAL PROPERTIES

Minimum bending radius:	20 mm
Repeated bending:	
Tensile strength (4P):	56 N
Minimal crush resistance / 10cm:	600 N
Minimum number of impacts:	10
Installation temperature:	0 °C - +50 °C
Operating temperature:	-20 °C - +60 °C

## STANDARDS

Reaction to fire (Euroclass)	EN 13501-6: B2 <sub>ca</sub>
Wire colour	white/bluered/orangeblack/greenyellow/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
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
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	Reaction to fire (Euroclass)	Dimensions n x p x [mm <sup>2</sup> (AWG)]	Sheath	Sheath colour	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Fire load [MJ/m]	Fire load [kWh/m]	PU
18114600BK		CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.132 (AWG26)	FRNC/LSZH	grey	5.8	36	18.1	0.38 MJ/m	0.11	1000 m drum
18124300BK		CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.132 (AWG26)	FRNC/LSZH	yellow	5.8	40	18.1	0.38 MJ/m	0.11	1000 m drum
18277300BK		CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.132 (AWG26)	FRNC/LSZH	red	5.8	40	18.1	0.38 MJ/m	0.11	1000 m drum
18278400BK		CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.132 (AWG26)	FRNC/LSZH	orange	5.8	40	18.1	0.38 MJ/m	0.11	1000 m drum
18287100BK		CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.132 (AWG26)	FRNC/LSZH	black	5.8	40	18.1	0.38 MJ/m	0.11	1000 m drum
18287200BK		CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.132 (AWG26)	FRNC/LSZH	green	5.8	40	18.1	0.38 MJ/m	0.11	1000 m drum
18287300BK		CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.132 (AWG26)	FRNC/LSZH	blue	5.8	40	18.1	0.38 MJ/m	0.11	1000 m drum
18565500BK		CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.132 (AWG26)	FRNC/LSZH	purple	5.8	40	18.1	0.38 MJ/m	0.11	1000 m drum
18844000BK		CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.132 (AWG26)	FRNC/LSZH	white	5.8	40	18.1	0.38 MJ/m	0.11	1000 m drum