

## CU 7702 4P flex

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



- 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+.

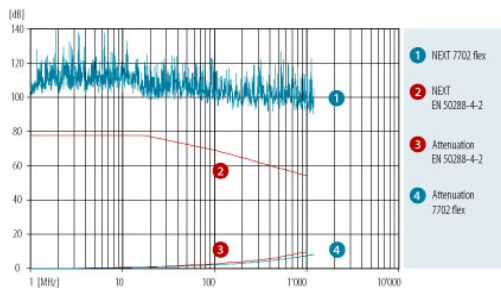
### General Properties

Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +60 °C
Wire colour	white - blue/blue, white orange/orange, white green/green, white brown/brown in acc. with IEC 60189 and IEC 60708 (ring marked)

### Electrical properties

Category	Cat.7
Coupling attenuation	70 dB
Delay Skew	4 ns/100 m
EMC	shielded
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

Segregation class	c
Transfer impedance	10 mΩ/m



Frequency [MHz]	Category	NEXT [dB]	PS-NEXT [dB]	ACR-N [dB] (10M)	PS-ACR-N [dB] (10M)	ACR-F [dB] (10M)	Return Loss [dB]
1		100	97	100	97	100	26
4		100	97	99	96	99	32
10		100	97	99	96	99	35
100	5e	100	97	97	94	97	30
250	6	95	92	91	88	95	27
500	6 <sub>A</sub>	92	89	86	83	91	24
600	7	90	87	83	80	88	23
800		90	87	82	79	87	21
862		90	87	82	79	87	21

## Mechanical properties

Minimal crush resistance / 10cm	600 N
Minimum bending radius	20 mm
Minimum number of impacts	10
Repeated bending	1000 cycles
Solid / Flex	Stranded wire (flexible)
Tensile strength (4P)	56 N

## Standards

Cat./Class	Cat 7 / Class F - limit values as specified by IEC 61156-6 and EN 50288-4-2 guaranteed
PoE	IEEE 802.3af
Reaction to fire (Euroclasses)	EN 13501-6
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/LS0H

## Note

PVC versions available

## Versions

Material number	Product	Reaction To Fire	Outer sheath colour	Diameter mm <sup>2</sup>	Outer sheath diameter [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit
1884400DK	CU 7702 4P Flex	Dca-s2,d1,a1	white	0.132	5.8	18.1	40	0.13	1000 m drum
18114600DK	CU 7702 4P Flex	Dca-s2,d1,a1	grey	0.132	5.8	18.1	36	0.13	1000 m drum
18124300DK	CU 7702 4P Flex	Dca-s2,d1,a1	yellow	0.132	5.8	18.1	40	0.13	1000 m drum
18277300DK	CU 7702 4P Flex	Dca-s2,d1,a1	red	0.132	5.8	18.1	40	0.13	1000 m drum
18278400DK	CU 7702 4P Flex	Dca-s2,d1,a1	orange	0.132	5.8	18.1	40	0.13	1000 m drum

Material number	Product	Reaction To Fire	Outer sheath colour	Diameter mm <sup>2</sup>	Outer sheath diameter [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit
18287100DK	CU 7702 4P Flex	Dca-s2,d1,a1	black	0.132	5.8	18.1	40	0.13	1000 m drum
18287200DK	CU 7702 4P Flex	Dca-s2,d1,a1	green	0.132	5.8	18.1	40	0.13	1000 m drum
18287300DK	CU 7702 4P Flex	Dca-s2,d1,a1	blue	0.132	5.8	18.1	40	0.13	1000 m drum
18565500DK	CU 7702 4P Flex	Dca-s2,d1,a1	purple	0.132	5.8	18.1	40	0.13	1000 m drum

Subject to technical modification

As of 2020-12-03 11:26:54