

CU 7702 4P flex TC

Flexible data cable, S/FTP, Category 7, AWG26, Euroclass B2_{ca}

862 MHz



- 1 Inner conductor: AWG26, tinned copper wire, stranded
- 2 PE insulated conductor: Ø 1.02 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+ / 4PPoE.

Construction

Outer sheath material	FRNC/LSZH
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General properties

Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +60 °C
Wire colour	white/blue, white/orange, white/green, white/brown, according to IEC 60189 and IEC 60708
Imprint	DATWYLER «cable type» «additional text» «batch number» «meter marks»
Field of application	Indoor

Electrical properties

Category	Cat.7
Gbit/s	Up to 10 Gbit/s
Loop resistance at 20 °C	275 Ω/km
Operating capacity	43 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	78
Delay skew	4 ns/100 m
Shielding	shielded
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
Transfer impedance	13 mΩ/m
Coupling attenuation	70 dB
Segregation class	c

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

The performance data given are typical measured values.

Mechanical properties

Solid / Flex	Stranded wire (flexible)
AWG	26
Minimum bending radius	20 mm
Minimal crush resistance / 10cm	600 N
Minimum number of impacts	10
Repeated bending	1000 cycles

Standards

Reaction to fire	EN 13501-6
Euroclass	B2 _{ca}
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Section 4.3.3 - applies to FRNC/LS0H
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Section 4.3.3 SA
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Section 4.3.3 F1
Cables standard	ISO/IEC 61156-6, EN 50288-4-2
Cat./Class	Cat.7 / Class F
PoE	IEEE 802.3bt (4PPoE, 100 W), in accordance with ISO/IEC TS 29125 requirements

Note

PVC versions available

Versions

Material number	Product	Reaction to fire	Dimensions n x p x [mm ² (AWG)]	Outer sheath colour	Outer sheath dimensions [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit	GTIN / EAN
19471600BK	CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.13 (AWG 26/7)	blue	5.8	18	35	0.13	1000 m drum	40393910419672
19472600BK	CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.13 (AWG 26/7)	grey	5.8	18	35	0.13	1000 m drum	40393910419610
19473300BK	CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.13 (AWG 26/7)	yellow	5.8	18	35	0.13	1000 m drum	40393910419559
19473400BK	CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.13 (AWG 26/7)	white	5.8	18	35	0.13	1000 m drum	40393910419498
19473500BK	CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.13 (AWG 26/7)	red	5.8	18	35	0.13	1000 m drum	40393910419436
19473600BK	CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.13 (AWG 26/7)	green	5.8	18	35	0.13	1000 m drum	40393910419375
19473700BK	CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.13 (AWG 26/7)	orange	5.8	18	35	0.13	1000 m drum	40393910419313
19473800BK	CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.13 (AWG 26/7)	black	5.8	18	35	0.13	1000 m drum	40393910419252
19473900BK	CU 7702 4P Flex	B2ca-s1a,d1,a1	4 x 2 x 0.13 (AWG 26/7)	violet	5.8	18	35	0.13	1000 m drum	40393910419191

Subject to technical modification

As of 2025-05-06 11:25:21