

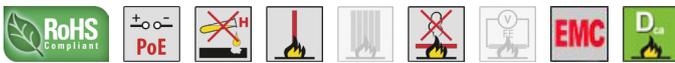
CU 7727 4P flex Industrial FRNC UL

Flexible data cable, S/FTP, Category 7, AWG27, Euroclass D_{ca}

600 MHz



- 1 Inner conductor: AWG27, bare copper wire, stranded
- 2 PE insulated conductor: Ø 1.01 mm
- 3 Screen (pair): Alu PETP foil
- 4 Overall screen: tinned braided copper
- 5 Outer sheath: FRNC/LSZH



Description

Electrically and mechanically superior quality Cat.7 flexible cable - 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 and for flexible wiring in machine control cabinets and for general industrial applications, where UL certified products are required.

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 Ethernet and Ethernet based protocols up to 10GBase-T.

Applicable for Power over ethernet PoE / PoE+ / 4PPoE (100 Watt).

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	Industrial

Electrical properties

Category	Cat.7
Gbit/s	Up to 10 Gbit/s
Loop resistance at 20 °C	335 Ω/km
Operating capacity	47 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	72
Delay skew	4 ns/100 m
Shielding	shielded
Near end unbalance attenuation LCL at 1-600 MHz	40 dB
Transfer impedance	10 mΩ/m
Coupling attenuation	70 dB
Segregation class	c

Frequency [MHz]	Category	Attenuation [dB] (10M)	NEXT [dB]	ACR-N [dB] (10M)	PS-ACR-N [dB] (10M)	ACR-F [dB] (10M)	Return Loss [dB]
1		0.26	100	100	97	100	26
4		0.5	100	99	96	99	32
10		0.8	100	99	96	99	35
100	5e	2.7	100	97	94	97	30
250	6	4.5	95	91	88	95	27
500	6 _A	6.6	92	86	83	91	24
600	7	7.2	90	83	80	88	23
800		7.9	90	82	79	87	21

The performance data given are typical measured values.

Mechanical properties

Solid / Flex	Stranded wire (flexible)
AWG	27
Minimum bending radius	25 mm
Minimal crush resistance / 10cm	600 N
Minimum number of impacts	10
Repeated bending	1000 cycles

Standards

Reaction to fire	EN 13501-6
Euroclass	D _{ca}
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2
Cables standard	ISO/IEC 61156-6, EN 50288-4-2
Cat./Class	Cat.7 / Class F
PoE	IEEE 802.3bt
UL certification	UL 444, CMG

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
19467900DK	CU 7727 4P Flex	Dca-s2,d1,a1	4 x 2 x 0.108 (AWG27)	grey	6.2	15.2	43	0.14	1000 m drum	40393910216783

Subject to technical modification

As of 2025-03-20 13:50:41