

## CU 7724 4P flex SHF1

Flexible data cable, S/FTP, Category 7, AWG24, Euroclass Dca

600 MHz



- 1 Inner conductor: AWG24, tinned copper wire, stranded
- 2 PE insulated conductor: Ø 1.35 mm
- 3 Screen (pair): Alu PETP foil
- 4 Overall screen: tinned braided copper
- 5 Outer sheath: FRNC/LS0H SHF1



### 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 IEC 60603-7.

Fire retardant and halogen free sheath.

Certified by Det Norske Veritas.

### Application

As patch cord in patch panels and as equipment connection cable, especially suitable for CP (Consolidation Point) applications.

Designed for use in industrial areas, particularly for higher requirements in offshore and marine 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+.

### Construction

Outer sheath material	FRNC/LSZH SHF1
Outer sheath colour	grey

### General properties

Installation temperature	0 °C - +50 °C
Operating temperature	-20 °C - +70 °C
Wire colour	white/blue, white/orange, white/green, white/brown, according to IEC 60189 and IEC 60708
Imprint	DATWYLER CU 7724 4P FLEX AWG24 S/FTP CAT 7 IEC SHF1 NVP78% - DNV-CP-0403 - IEC 61156-6 - TAE000044A - Dca-s1a,d2,a1 MADE IN SWITZERLAND <Lot-number> <length marking> M
Field of application	Off-Shore / Shipbuilding

## Electrical properties

Category	Cat.7
Gbit/s	Up to 10 Gbit/s
Loop resistance at 20 °C	175 Ω/km
Operating capacity	40 pF/m
Impedance at 100 MHz, ±5Ω	100 Ω
NVP %	78
Delay skew	6 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)	Attenuation [dB]	NEXT [dB]	PS-NEXT [dB]	ACR-N [dB] (10M)	PS-ACR-N [dB] (10M)	ACR-F [dB] (10M)	Return Loss [dB] (10M)
1		0.19	0.19	100	97	98	95	98	26
4		0.37	0.37	100	97	96	93	98	28
10		0.59	0.59	100	97	94	91	98	28
100	5e	1.93	1.93	100	97	80	77	78	28
250	6	3.06	3.06	100	97	69	66	69	27
500	6 <sub>A</sub>	4.4	4.4	92	89	48	45	56	25
600	7	4.9	4.9	90	87	41	38	45	25

The performance data given are typical measured values.

## Mechanical properties

Solid / Flex	Stranded wire (flexible)
AWG	24
Minimum bending radius (permanently installed)	30.4 mm
Minimum bending radius	30.4 mm
Repeated bending	1000 cycles
Tensile strength (4P)	100 N

## Standards

Reaction to fire	EN 13501-6
Euroclass	D <sub>ca</sub>
Smoke density	IEC 61034-1/-2, EN 61034-1/-2
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2
Flame propagation	IEC 60332-1-2, EN 60332-1-2
Flame spread	IEC 60332-3-24, EN 60332-3-24, VDE 0482-332-3-24
UV resistance	EN 50289-4-17-A [720h]
Cables standard	ISO/IEC 61156-6, EN 50288-4-2
Cat./Class	Cat.7 / Class F
DNV standard	DNV-CP-0403
PoE	IEEE 802.3af

## Versions

Material number	Product	Reaction to fire	Dimensions n x p x [mm <sup>2</sup> (AWG)]	Outer sheath dimensions [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit	GTIN / EAN
19466101DK	CU 7724 4P flex SHF1	Dca-s1a,d1,a1	4 x 2 x 0.21 (AWG24)	7.6	22.9	59	0.17	1000 m drum	40393910231687
19466101DL	CU 7724 4P flex SHF1	Dca-s1a,d1,a1	4 x 2 x 0.21 (AWG24)	7.6	22.9	59	0.17	500 m drum	40393910231670

Subject to technical modification

As of 2025-10-30 11:20:58