

CU 602 4P flex

Flexible data cable, U/UTP, Category 6, AWG24, Euroclass D_{ca}



- 1 Inner conductor: AWG24, bare copper wire, stranded
- 2 PE insulated conductor: Ø 0.99 mm
- 3 Outer sheath: FRNC/LSOH, various colours



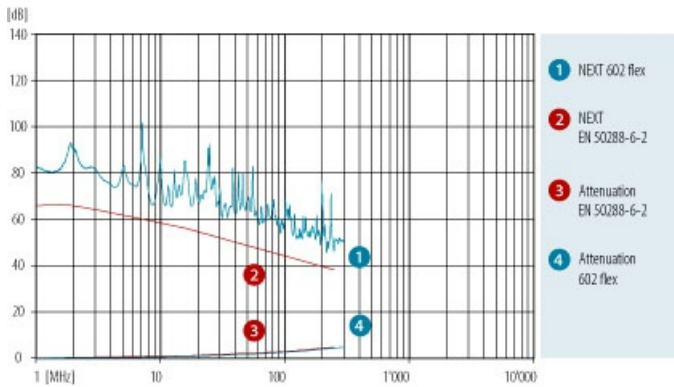
DESCRIPTION

Electrically and mechanically superior quality Cat.6 patch cable - exceeds the requirements of ISO/IEC 11801, IEC 61156-6, EN 50173-1 and EN 50288-6-2. Construction optimised for fast and reliable terminations. Easy wire identification and termination due to different coloured wires. Compatible with all current connecting hardware in accordance with EN 50173 and ISO/IEC 11801. Optimised for RJ45 connecting systems. Differently coloured sheaths facilitate clearly arranged installations and visual differentiation of services.

APPLICATION

As patch cord in patch panels and equipment connection cable. For the transmission of digital and analogue voice, video and data signals. Suitable for all ICT network applications up to class E applications (250 MHz) in accordance with EN 50173-1 and ISO/IEC 11801. Applicable for Power over Ethernet (PoE) / PoE+.

GRAPH



ELECTRICAL CHARACTERISTICS

Category	1	4	10	5e	6	300
Frequency [MHz]	1	4	10	100	250	300
Attenuation [dB/10m]	0.3	0.6	0.9	3.0	5.0	5.5
NEXT [dB]	69	68	62	47	41	40
PS NEXT [dB]	66	65	59	44	38	37
ACR-N [dB/10m]	68	67	61	44	36	34
PS-ACR-N [dB/10m]	65	64	58	41	33	31
ACR-F [dB/10m]	75	69	67	54	48	48
PS-ACR-F [dB/10m]	72	66	64	51	45	45
Return loss [dB]	24	30	30	28	23	23

These performance data are typical measured values.

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ELECTRICAL PROPERTIES

Loop resistance at 20° C:	180 Ω/km
Mutual capacitance:	52 pF/m
Impedance at 100 MHz:	100 Ω ±5 Ω
TCL:	≥ 50 db - 10 x lgf
Delay Skew:	18 ns/100 m
NVP:	67 %

MECHANICAL PROPERTIES

Bending radius:	≥ 20 mm
Repeated bending:	≥ 1000 cycles
Tensile strength:	≤ 72 N
Temperature range	during installation: 0° C to + 50° C in operation: -20° C to + 60° C

STANDARDS

Wire colour	white - blue/bluewhite - orange/orangewhite - green/greenwhite - brown/brown in accordance with IEC 60189 and IEC 60708 (ring marked)
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 - applies to FRNC/LS0H
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
Reaction to fire (Euroclasses)	EN 13501-6: D _{ca} -s2,d1,a1
PoE	IEEE 802.3af
Segregation class	b
Cat./Class	Cat 6 / Class E - limit values as specified by IEC 61156-6 and EN 50288-6-2 guaranteed

VERSIONS

Article No.	DoP	Product	Dimensions n x p x [mm ² (AWG)]	Dimensions n x p x [mm (AWG)]	Sheath	Sheath colour	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Fire load [MJ/m]	Fire load [kWh/m]	PU
182772		CU 602 4P flex	4 x 2 x 0.22 (AWG24)	4 x 2 x 0.64 (AWG22)	FRNC/LS0H	grey	5.1	27.9	17.5	0.40	0.11	1000 m drum
18277200DK		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	grey	5.1	27.9	17.5	0.40	0.11	1000 m drum
18277200DL		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	grey	5.1	27.9	17.5	0.40	0.11	500 m drum
187667		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	black	5.1	27.9	17.5	0.40	0.11	1000 m drum
18766700DK		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	black	5.1	27.9	17.5	0.40	0.11	1000 m drum
18766700DL		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	black	5.1	27.9	17.5	0.40	0.11	500 m drum
187665		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	white	5.1	27.9	17.5	0.40	0.11	1000 m drum
18766500DK		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	white	5.1	27.9	17.5	0.40	0.11	1000 m drum
18766500DL		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	white	5.1	27.9	17.5	0.40	0.11	500 m drum
187666		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	yellow	5.1	27.9	17.5	0.40	0.11	1000 m drum
18766600DK		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	yellow	5.1	27.9	17.5	0.40	0.11	1000 m drum
18766600DL		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	yellow	5.1	27.9	17.5	0.40	0.11	500 m drum
182845		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	blue	5.1	27.9	17.5	0.40	0.11	1000 m drum
18284500DK		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	blue	5.1	27.9	17.5	0.44	0.11	1000 m drum
18284500DL		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	blue	5.1	27.9	17.5	0.40	0.11	500 m drum
187630		CU 602 4P flex	4 x 2 x 0.22 (AWG24)	4 x 2 x 0.64 (AWG22)	FRNC/LS0H	red	5.1	27.9	17.5	0.40	0.11	1000 m drum
18763000DK		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	red	5.1	27.9	17.5	0.40	0.11	1000 m drum
18763000DL		CU 602 4P flex	4 x 2 x 0.22 (AWG24)		FRNC/LS0H	red	5.1	27.9	17.5	0.40	0.11	500 m drum