

CF78.UL  
PUR  
6,8-7,5xd

# PUR Control cable | CF78.UL

- for high load requirements
- PUR outer jacket
- shielded
- oil-resistant and coolant-resistant
- flame-retardant
- notch-resistant
- PVC-free/halogen-free






























	<b>Conductor</b>	Fine-wire stranded conductor consisting of bare copper wires (following EN 60228).
	<b>Core insulation</b>	Mechanically high-quality TPE mixture.
	<b>Core stranding</b>	<b>Number of cores &lt; 12:</b> cores stranded in a layer with short pitch length. <b>Number of cores ≥ 12:</b> cores combined in bundles and stranded together around a centre for high tensile stresses with adapted, short pitch lengths and pitch directions, especially low-torsion structure.
	<b>Core identification</b>	<b>Cores &lt; 0,5 mm²:</b> Colour code in accordance with DIN 47100 <b>Cores ≥ 0,5 mm²:</b> cores black with white numerals, one core green-yellow
	<b>Inner jacket</b>	PUR mixture adapted to suit the requirements in energy chains®.
	<b>Overall shield</b>	Bending-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical.
	<b>Outer jacket</b>	Low-adhesion, highly abrasion-resistant mixture on the basis of PUR, adapted to suit the requirements in energy chains® (following DIN VDE 0282 Part 10). Colour: Window grey (similar to RAL 7040)
	<b>Bending radius</b>	<b>moved</b> < 10 m travel moved minimum 6,8 x d ≥ 10 m travel moved minimum 7,5 x d <b>fixed</b> minimum 4 x d
	<b>Temperature</b>	<b>moved</b> -35 °C to +80 °C <b>fixed</b> -40 °C to +80 °C
	<b>v max.</b>	10 m/s, 5 m/s
	<b>unsupported/gliding</b>	
	<b>a max.</b>	80 m/s²
	<b>Travel distance</b>	Freely suspended travel distances and up to 100 m for gliding applications, Class 4
	<b>UV-resistant</b>	Medium
	<b>Nominal voltage</b>	<b>Number of cores &lt; 12:</b> 300/500 V <b>Number of cores &lt; 12 (0,25-0,34):</b> 300/300 V <b>Number of cores ≥ 12:</b> 300/300 V (following DIN VDE 0245)
	<b>Testing voltage</b>	2000 V (following DIN VDE 0281-2).



Image exemplary.

CF78.UL  
PUR  
6,8-7,5xd

## Class 5.4.3 (5 high load requirements 4 travel distance up to 100 m 3 oil-resistant)

	<b>Oil</b>	Oil-resistant (following DIN EN 50363-10-2), Class 3.
	<b>Offshore</b>	MUD-resistant following NEK 606 – status 2009.
	<b>Flame-retardant</b>	According to IEC 60332-1-2, CEI 20-35, FT1, VW-1
	<b>Silicon-free</b>	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
	<b>Halogen-free</b>	Following EN 50267-2-1
	<b>UL/CSA</b>	<b>&lt; 0,5 mm²:</b> Style 10493 and 20233, 300 V, 80 °C <b>≥ 0,5 mm²:</b> Style 11323 and 21223, 1000 V, 80 °C
	<b>NFPA</b>	Following NFPA 79-2012 chapter 12.9
	<b>CEI</b>	Following CEI 20-35
	<b>CE</b>	Following 2006/95/EG
	<b>Lead free</b>	Following 2011/65/EC (RoHS-II)
	<b>Clean room</b>	According to ISO Class 1. Outer jacket material complies with CF77.UL.05.12.D, tested by IPA according to standard 14644-1
	<b>CTP</b>	Certified according to N° C-DE.PB49.V.00396
	<b>EAC</b>	Certified according to N° TC RU C-DE.ME77.B.00960

**New!** Guaranteed lifetime for this series according to the "chainflex® guarantee club" conditions ► Page 22-25

Double strokes*	Temperature, from/to [°C]	Travel distance [m]	5 million		7,5 million		10 million	
			R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]		
	-35 / -25		< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
	-25 / +70	≤ 100	8,5	10	9,5	11	10,5	12
	+70 / +80		6,8	7,5	7,5	8,5	8,5	9,5
			7,5	7,5	9,5	11	10,5	12

\* higher number of double strokes possible

### Typical application area

- for high load requirements
- almost unlimited resistance to oil
- indoor and outdoor applications with average sun radiation
- freely suspended travel distances and up to 100 m for gliding applications
- Machining units/machine tools, storage and retrieval units for high-bay warehouses, packaging industry, quick handling, refrigerating sector





Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF78.UL.05.04	(4 G 0,5)C	8,0	40	79
CF78.UL.05.05	(5 G 0,5)C	8,5	48	94
CF78.UL.05.07	(7 G 0,5)C	9,5	62	123
CF78.UL.05.09	(9 G 0,5)C	11,0	81	148
CF78.UL.05.12	(12 G 0,5)C	12,5	97	207
CF78.UL.05.18	(18 G 0,5)C	14,0	156	257
CF78.UL.05.25	(25 G 0,5)C	16,0	180	366
CF78.UL.07.03	(3 G 0,75)C	8,0	44	79
CF78.UL.07.04	(4 G 0,75)C	8,5	52	99
CF78.UL.07.05	(5 G 0,75)C	9,5	64	108
CF78.UL.07.07	(7 G 0,75)C	10,5	87	146
CF78.UL.07.12	(12 G 0,75)C	13,5	145	252
CF78.UL.07.18	(18 G 0,75)C	16,0	207	367
CF78.UL.07.36	(36 G 0,75)C	21,5	416	728
CF78.UL.07.42	(42 G 0,75)C	23,5	489	800
CF78.UL.10.03	(3 G 1,0)C	8,5	53	90
CF78.UL.10.04	(4 G 1,0)C	9,0	65	107
CF78.UL.10.05	(5 G 1,0)C	9,5	78	124
CF78.UL.10.07	(7 G 1,0)C	11,0	110	170
CF78.UL.10.12	(12 G 1,0)C	14,5	178	307
CF78.UL.10.18	(18 G 1,0)C	17,0	256	424
CF78.UL.10.25	(25 G 1,0)C	19,5	347	567
CF78.UL.15.03	(3 G 1,5)C	9,5	72	133
CF78.UL.15.04	(4 G 1,5)C	10,0	90	139
CF78.UL.15.05	(5 G 1,5)C	10,5	115	166
CF78.UL.15.07	(7 G 1,5)C	12,5	153	226
CF78.UL.15.12	(12 G 1,5)C	16,5	249	403
CF78.UL.15.18	(18 G 1,5)C	19,0	368	564
CF78.UL.15.25	(25 G 1,5)C	22,5	495	755
CF78.UL.15.36	(36 G 1,5)C	26,5	715	1147
CF78.UL.15.42	(42 G 1,5)C	29,5	884	1360
CF78.UL.25.04	(4 G 2,5)C	11,5	148	212
CF78.UL.25.05	(5 G 2,5)C	12,5	177	247
CF78.UL.25.07	(7 G 2,5)C	14,5	245	350
CF78.UL.40.04	(4 G 4,0)C	14,0	217	342

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.  
G = with green-yellow earth core    x = without earth core



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Ethernet Cables / Networking Cables](#) category:*

*Click to view products by [Igus](#) manufacturer:*

Other Similar products are found below :

[73-7795-1](#) [MCJB2-10P6Q7-120](#) [84909-0204](#) [1200700174](#) [1200860368](#) [E16A06002M030](#) [E200102-009-S1](#) [AX105346-EW](#) [MT14-187L](#)  
[MWDM2L-51GS-6J1-2.82B](#) [ERWPAB3002M005](#) [190-038045-01](#) [NK5EPC1GRY](#) [NK5EPC4Y](#) [1969343-6](#) [ICD056GVP163D-C0](#)  
[C5UMB3FBG](#) [C631208025](#) [C631208035](#) [C6F1106015](#) [2142758-2](#) [2168427-2](#) [21949-1](#) [2J1866A](#) [RJF SFTP 5E 0500](#) [AX100351](#)  
[UTPCH14GY](#) [45-5684](#) [09459711142](#) [100345-1301](#) [MWDM2L-25P-8K1-.500B](#) [MWDM6L-31S-6C4-.375H](#) [73-7793-1](#) [74764-1101](#)  
[WHU18-3636-048](#) [RJF2SA2G05100BTX](#) [1R4000A39M030](#) [UTPSP6GY](#) [UTPSP2GY](#) [UTPSP10GY](#) [UTPCH5GY](#) [UTP28SP15M](#)  
[UTP28CH100OR](#) [74764-2301](#) [E66A06002M020](#) [NPC-5E-010-GY](#) [SAC-5P-MS/ 1.0-920/FS SCO AR](#) [1-3636-601-5211](#) [1-3636-600-5212](#) [1-3636-461-5208](#)