



















TPE Bus cable | CF14 CAT5






- Ethernet special cable for heavy-duty use
- TPE outer jacket
- oil-resistant
- biooil-resistant
- PVC-free/halogen-free
- UV-resistant
- hydrolysis-resistant and microbe-resistant

	Conductor	19-wire conductor consisting of bare copper wires in especially bending-resistant braiding quality.
	Core insulation	Special PP-isolating mixture.
	Core stranding	2 cores each stranded in pairs with short pitch lengths, core pairs also stranded with short pitch lengths.
	Core identification	Colour code in accordance with DIN 47100
	Inner jacket	TPE mixture adapted to suit the requirements in energy chains®.
	Overall shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70% linear, approx. 90% optical.
	Outer jacket	Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in energy chains®. Colour: Red lilac (similar to RAL 4001)
	Bending radius	moved minimum 10 x d fixed minimum 5 x d
	Temperature	moved -35 °C to +70 °C fixed -40 °C to +70 °C
	v max. unsupported/gliding	10 m/s, 6 m/s
	a max.	100 m/s ²
	Travel distance	Freely suspended travel distances and up to 400 m for gliding applications, Class 5
	UV-resistant	Medium
	Nominal voltage	50 V
	Testing voltage	500 V
	Oil	Oil-resistant (following DIN EN 60811-2-1), biooil-resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4.
	Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
	Halogen-free	Following EN 50267-2-1.

 eplan download, configurator ► www.igus.eu/CF14

1030 types from stock no cutting costs ...
(for up to 10 cuts of the same type)

Class 6.5.4 (6 maximum load requirements 5 travel distance up to 400 m 4 oil-resistant)

	CE	Following 2006/95/EG
	DESINA	According to VDW, DESINA standardisation
	Lead free	Following 2011/65/EC (RoHS-II)
	Clean room	According to ISO Class 1. Outer jacket material complies with CF9.15.07, tested by IPA according to standard 14644-1
	EAC	Certified according to N° TC RU C-DE.ME77.B.00963

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

Double strokes* Temperature, from/to [°C]	5 million		7,5 million		10 million	
	v max. [m/s] unsupported	a max. [m/s ²] gliding	Travel distance [m]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-35 / -25			≤ 400	12,5	13,5	14,5
-25 / +60	10	6		10	11	12
+60 / +70				12,5	13,5	14,5

* higher number of double strokes possible

Typical application area

- for maximum load requirements
- almost unlimited resistance to oil, also with bio-oils
- indoor and outdoor applications without direct sun radiation
- freely suspended travel distances and up to 400 m for gliding applications
- Ethernet cable for Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, clean room, semiconductor insertion, indoor cranes, low-temperature applications

Delivery program Part No.	Number of cores and conductor nominal cross section [mm ²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
Ethernet/CAT5/GigE				
CF14.01.04.02.CAT5	(4x(2x0,15))C	8,5	44	82
CF14.02.02.02.CAT5 ⁽²⁾	(4x0,25)C	7,5	35	60
CF14.02.04.02.CAT5	(4x(2x0,25))C	10,0	53	95
CF14.02.05.02.CAT5	(5x(2x0,25))C	10,5	59	113

The chainflex® types marked with (2) are cables designed as a star-quad.
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

Delivery program Part No.	Characteristic wave impedance approx. [Ω]	Cores group	Colour code
Ethernet/CAT5/GigE			
CF14.01.04.02.CAT5	100	(4x(2x0,15))C	white, green, brown, yellow (star-quad stranding)
CF14.02.02.02.CAT5 ⁽²⁾	100	(4x0,25)C	white/brown, green/yellow, grey/pink, blue/red
CF14.02.04.02.CAT5	100	(4x(2x0,25))C	white/brown, green/yellow, grey/pink, blue/red, black/fioletowy
CF14.02.05.02.CAT5	100	(5x(2x0,25))C	white/brown, green/yellow, grey/pink, blue/red, black/fioletowy

Test data ► Page 38 or www.igus.eu/test2
More CAT5/CAT6 cables ► Page 170, CFBUS

... no minimum order quantity ...
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