

Data sheet

chainflex® CFROBOT8

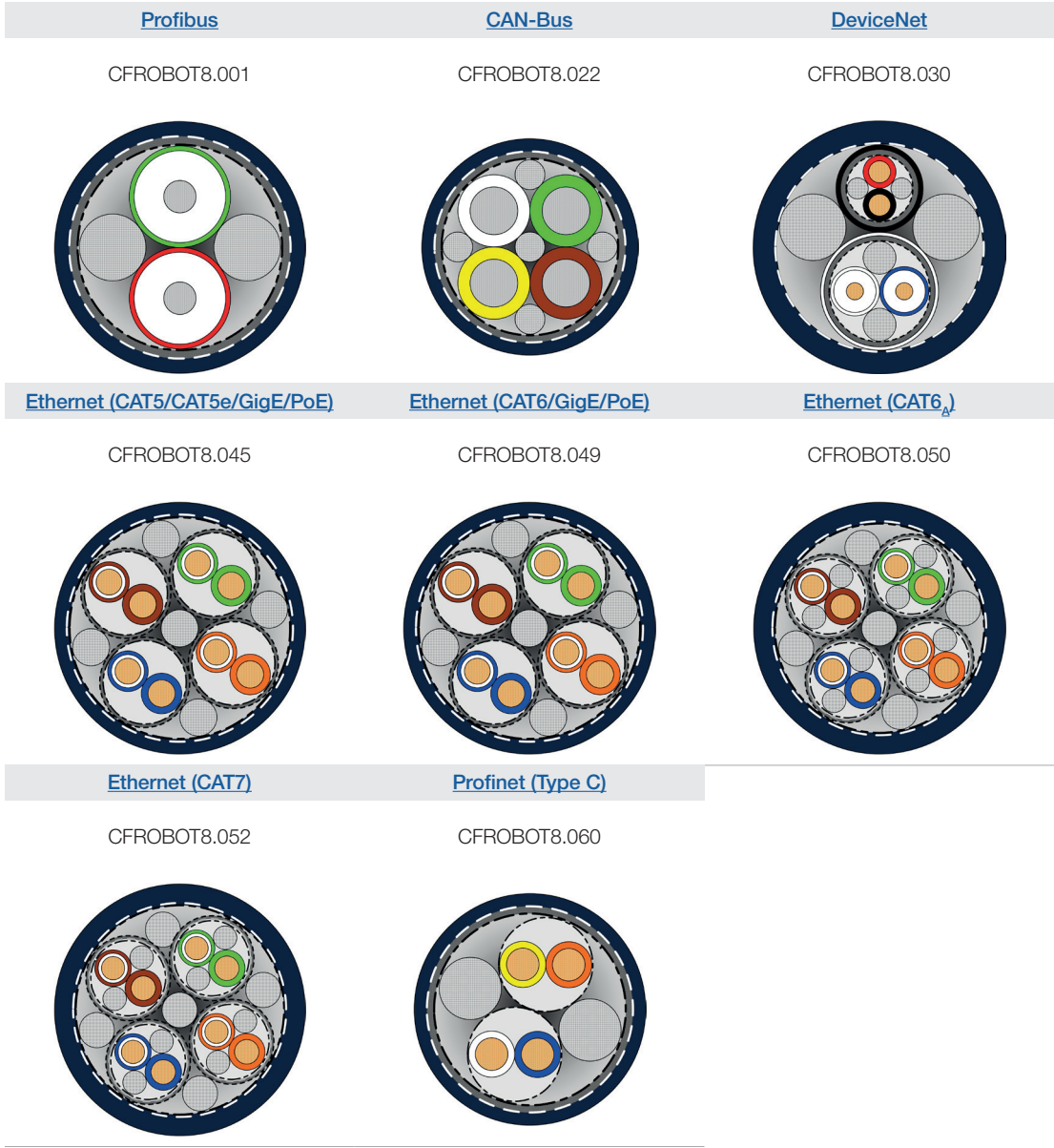


Bus cable (Class 6.1.3.3) ● For torsion applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● Notch-resistant ● Hydrolysis and microbe-resistant



Example image

igus® chainflex® CFROBOT 8



Guarantee
igus chainflex
36
up to 36 months guarantee

igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year



Data sheet








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Cable structure

-  **Conductor** Stranded conductor in especially bending-resistant version consisting of bare copper wires (following DIN EN 60228).
-  **Core insulation** According to bus specification.
-  **Core structure** According to bus specification.
-  **Core identification** According to bus specification.
▶ Product range table
-  **Intermediate layer** Foil taping over the outer layer.
-  **Overall shield** Torsion resistant tinned braided copper shield.
Coverage approx. 80 % optical
-  **Outer jacket** Low-adhesion, halogen-free, highly abrasion resistant PUR mixture, adapted to suit the requirements in e-chains® (following DIN EN 50363-10-2).
Colour: Steel-blue (similar to RAL 5011)
Printing: white

„00000 m** igus chainflex CFROBOT8.---① -----② E310776 cRUus AWM
 Style -----③ VW-1 AWM I/II A/B 80°C 300V FT1 EAC CE UKCA ---⑤ conform
 RoHS-II conform www.igus.de +++ chainflex cable works +++

* **Length printing:** Not calibrated. Only intended as an orientation aid.
 ① / ② Cable identification according to Part No. (see technical table).
 ③ / ④ Printing of UL style (see related chapter).
 ⑤ Printing according to bus specification (inclusive wave resistance).
 Example: ... chainflex **CFROBOT8.001 (2x0.35)C** ...

Guaranteed service life according to guarantee conditions

Cycles	5 million	7.5 million	10 million
Temperature, from/to [°C]	Torsion max. [°/m]	Torsion max. [°/m]	Torsion max. [°/m]
-25/-15	±150	±90	±30
-15/+60	±180	±120	±60
+60/+70	±150	±90	±30

Minimum guaranteed service life of the cable under the specified conditions.
 The installation of the cable is recommended within the middle temperature range.



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Example image

Properties and approvals

-  **UV resistance** High
-  **Oil resistance** Oil-resistant (following DIN EN 50363-10-2), Class 3
-  **Flame retardant** According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame
-  **Silicone-free** Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
-  **UL verified** Certificate No. B129699: „igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year“
-  **UL/CSA AWM** See table UL/CSA AWM for details
-  **EAC** Certificate No. RU C-DE.ME77.B.00295/19 (TR ZU)
-  **REACH** In accordance with regulation (EC) No. 1907/2006 (REACH)
-  **Lead-free** Following 2011/65/EC (RoHS-II/RoHS-III)
-  **Cleanroom** According to ISO Class 1. The outer jacket material of this series complies with CF77. UL.05.12.D - tested by IPA according to standard DIN EN ISO 14644-1
-  **CE** Following 2014/35/EU
-  **UKCA** In accordance with the valid regulations of the United Kingdom (as at 08/2021)



Properties and approvals

UL/CSA AWM Details

Part No.	UL style core insulation	UL style outer jacket	UL Voltage Rating [V]	UL Temperature Rating [°C]
CFROBOT8.001	1589	20236	300	80
CFROBOT8.022	1589	20236	300	80
CFROBOT8.030	1589	20236	300	80
CFROBOT8.045	10138	20317	300	80
CFROBOT8.049	10138	20317	300	80
CFROBOT8.050	1589	20236	300	80
CFROBOT8.052	1589	20236	300	80
CFROBOT8.060	1589	20236	300	80

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





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Dynamic information

	Bend radius	e-chain® twisted flexible fixed	min. 10 x d min. 8 x d min. 5 x d
	Temperature	e-chain® twisted flexible fixed	-25 °C up to +70 °C -40 °C up to +70 °C (following DIN EN 60811-504) -50 °C up to +70 °C (following DIN EN 50305)
	v max.	twisted	180 °/s
	a max.	twisted	60 °/s ²
	Travel distance	Robots and multi-axis movements, Class 1	
	Torsion	Torsion ±180°, with 1 m cable length, Class 3	

These values are based on specific applications or tests. They do not represent the limit of what is technically feasible.

Typical application areas

- For heaviest duty applications with torsion movements, Class 6
- Especially for robots and 3D movements, Class 1
- Almost unlimited resistance to oil, also with bio-oils, Class 3
- Torsion ±180°, with 1 m cable length, Class 3, Class 3
- Indoor and outdoor applications, UV-resistant
- robots, Handling, spindle drives



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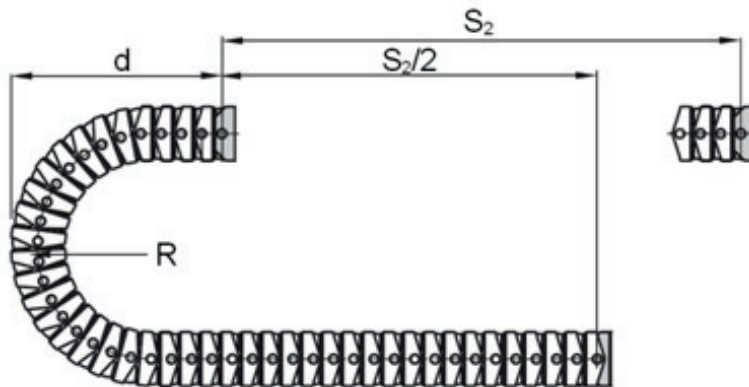


Bus cable (Class 6.1.3.3) ● For torsion applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● Notch-resistant ● Hydrolysis and microbe-resistant



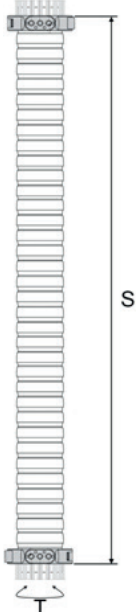
Typical lab test setup for this cable series

Tes bend radius R	approx 63 - 75 mm
Test travel S	approx. 1 - 12 m
Test duration	minimum 1.5 - 3 million double strokes
Test speed	approx. 0.5 m/s
Test acceleration	approx. 1.5 m/s ²



Typical lab test setup (torsion) for this cable series

Torsion range T	±180°/m
Length 3D e-chain®	1 m
Test duration (torsion)	minimum 3 - 5 million cycles
Test speed (torsion)	approx. 80 - 120 °/s
Test acceleration (torsion)	approx. 40°/s ²



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Technical tables:

Mechanical information

Part No.	Number of cores and conductor nominal cross section [mm²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
Profibus (1x2x0,64 mm)				
CFROBOT8.001	(2x0.35)C	8.0	28	63
CAN-Bus				
CFROBOT8.022	(4x0.5)C	7.5	41	78
DeviceNet				
CFROBOT8.030	(2xAWG24)C+(2xAWG22)C	9.5	31	77
Ethernet/CAT5e/PoE				
CFROBOT8.045	4x(2x0.15)C	9.5	48	96
Ethernet/CAT6/PoE				
CFROBOT8.049	4x(2x0.15)C	9.5	48	96
Ethernet/CAT6_A				
CFROBOT8.050	4x(2x0.15)C	10.5	51	134
Ethernet/CAT7				
CFROBOT8.052	4x(2x0.15)C	10.5	51	134
Profinet				
CFROBOT8.060	 (2x(2x0.34))C	8.5	34	74

G = with green-yellow earth core

x = without earth core

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.



Example image

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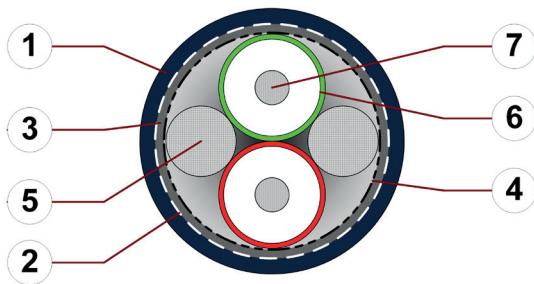


Bus cable (Class 6.1.3.3) ● For torsion applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● Notch-resistant ● Hydrolysis and microbe-resistant

Profibus
CFROBOT8.001

Cable structure

(Electrical information please see next page)



1. Outer jacket: Pressure extruded PUR mixture
2. Overall banding: Plastic fleece
3. Overall shield: Torsion resistant tinned braided copper shield
4. Banding: Gliding PTFE foil
5. Filler: Plastic yarns
6. Core insulation: Mechanically high quality TPE mixture (according to bus specification)
7. Conductor: Fine-wire strand in especially bending-stable version consisting of tinned copper wires

Example image

For detailed overview please see design table

Design table

Part No.	Core group	Colour code	Drawing
CFROBOT8.001	(2x0.35)C	red, green	



Example image



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chainflex® CFROBOT8



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Example image

Profibus
CFROBOT8.001

Electrical information

(Cable structure please see previous page)

Part No.	CFROBOT8.001
Nominal voltage	50 V 300 V (following UL)
Testing voltage (following DIN EN 50289-1-3)	500 V
Characteristic wave impedance (following DIN EN 50289-1-11)	150 ± 15 Ω (3-20 MHz)
Operating capacity (following DIN EN 50289-1-5)	30 pF/m

Conductor nominal cross section [mm ²]	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2) [Ω/km]	Maximum current rating at 30 °C (following DIN VDE 0298-4) [A]
0.35	64.0	7

The final maximum current rating depends among other things on the ambient conditions, the type of the installation and the number of loaded cores.



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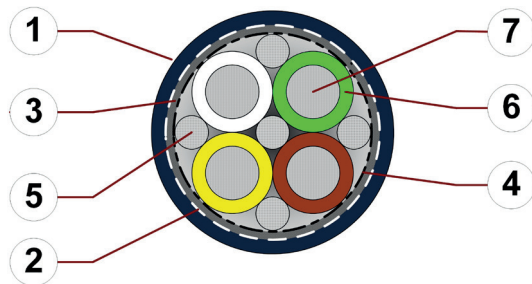


Bus cable (Class 6.1.3.3) ● For torsion applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● Notch-resistant ● Hydrolysis and microbe-resistant

CAN-Bus
CFROBOT8.022

Cable structure

(Electrical information please see next page)



1. Outer jacket: Pressure extruded PUR mixture
2. Overall banding: Plastic fleece
3. Overall shield: Torsion resistant tinned braided copper shield
4. Banding: Gliding PTFE foil
5. Filler: Plastic yarns
6. Core insulation: Mechanically high quality TPE mixture (according to bus specification)
7. Conductor: Fine-wire strand in especially bending-stable version consisting of tinned copper wires

Example image
For detailed overview please see design table

Design table

Part No.	Core group	Colour code	Drawing
CFROBOT8.022	(4x0.5)C	white, green, brown, yellow (Star-quad)	



Example image



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Example image

CAN-Bus
CFROBOT8.022

Electrical information

(Cable structure please see previous page)

Part No.	CFROBOT8.022
Nominal voltage	50 V 300 V (following UL)
Testing voltage (following DIN EN 50289-1-3)	500 V
Characteristic wave impedance (following DIN EN 50289-1-11)	120 ± 12 Ω (0,425-1 MHz)
Operating capacity (following DIN EN 50289-1-5)	40 pF/m

Conductor nominal cross section	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2)	Maximum current rating at 30 °C (following DIN VDE 0298-4)
[mm²]	[Ω/km]	[A]
0.5	44	10

The final maximum current rating depends among other things on the ambient conditions, the type of the installation and the number of loaded cores.



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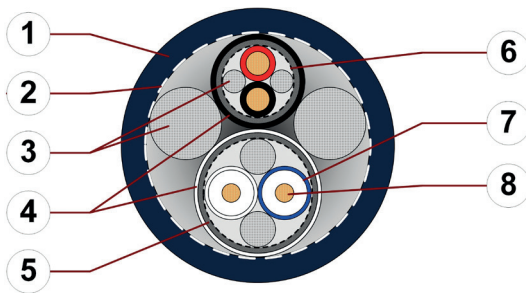


Bus cable (Class 6.1.3.3) ● For torsion applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● Notch-resistant ● Hydrolysis and microbe-resistant

DeviceNet
CFROBOT8.030

Cable structure

(Electrical information please see next page)



1. Outer jacket: Pressure extruded PUR mixture
2. Overall banding: Plastic fleece
3. Filler: Plastic yarns
4. Element jacket: Mechanically high-quality TPE mixture
5. Element shield: Torsion resistant tinned braided copper shield
6. Element banding: Plastic foil
7. Core insulation: Mechanically high quality TPE mixture (according to bus specification)
8. Conductor: Fine-wire strand in especially bending-stable version consisting of bare copper wires

Example image

For detailed overview please see design table

Design table

Part No.	Core group	Colour code	Drawing
CFROBOT8.030	(2xAWG24)C	white/blue	
	(2xAWG22)C	red/black	



Example image

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Example image

DeviceNet
CFROBOT8.030

Electrical information

(Cable structure please see previous page)

Part No.	CFROBOT8.030
Nominal voltage	50 V 300 V (following UL)
Testing voltage (following DIN EN 50289-1-3)	500 V
Characteristic wave impedance (following DIN EN 50289-1-11)	120 ± 12 Ω (1 MHz)

Conductor nominal cross section	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2)	Maximum current rating at 30 °C (following DIN VDE 0298-4)
[mm²]	[Ω/km]	[A]
AWG24	83	5
AWG22	54	7

The final maximum current rating depends among other things on the ambient conditions, the type of the installation and the number of loaded cores.



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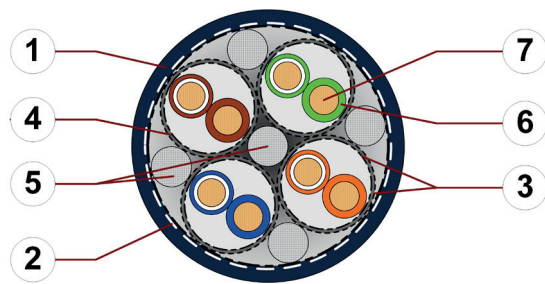
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Ethernet (CAT5/CAT5e/GigE/PoE)
CFROBOT8.045

Cable structure

(Electrical information please see next page)



1. Outer jacket: Pressure extruded PUR mixture
2. Overall banding: Plastic fleece
3. Element banding: Plastic foil
4. Element shield: Torsion resistant tinned braided copper shield
5. Filler: Plastic yarns
6. Core insulation: Mechanically high quality TPE mixture (according to bus specification)
7. Conductor: Fine-wire strand in especially bending-stable version consisting of bare copper wires

Example image

For detailed overview please see design table

Design table

Part No.	Core group	Colour code	Drawing
CFROBOT8.045	4x(2x0.15)C	white-green/green, white-orange/orange, white-blue/blue, white-brown/brown	



Example image

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Bus cable (Class 6.1.3.3) ● For torsion applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● Notch-resistant ● Hydrolysis and microbe-resistant



Ethernet (CAT5/CAT5e/GigE/PoE)
CFROBOT8.045

Electrical information

(Cable structure please see previous page)

Part No.	CFROBOT8.045
Nominal voltage	50 V 300 V (following UL)
Testing voltage (following DIN EN 50289-1-3)	500 V
Operating capacity (following DIN EN 50289-1-5)	55 pF/m
Nominal Velocity of Propagation (NVP)	67 %
Characteristic wave impedance (following DIN EN 50289-1-11)	100 ± 25 Ω

Conductor nominal cross section [mm ²]	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2) [Ω/km]	Maximum current rating at 30 °C (following DIN VDE 0298-4) [A]
0.15	133	2.5

The final maximum current rating depends among other things on the ambient conditions, the type of the installation and the number of loaded cores.

Part No.	Bus type	Link class	Maximum transmission length
CFROBOT8.045	Ethernet/CAT5e	Class D - (Data applications up to 100 MHz)	60 m



Example image

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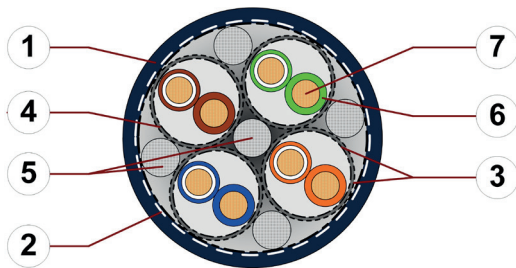


Bus cable (Class 6.1.3.3) ● For torsion applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● Notch-resistant ● Hydrolysis and microbe-resistant

Ethernet (CAT6/GigE/PoE)
CFROBOT8.049

Cable structure

(Electrical information please see next page)



1. Outer jacket: Pressure extruded PUR mixture
2. Overall banding: Plastic fleece
3. Element banding: Plastic foil
4. Element shield: Torsion-resistant braiding made of tinned copper wires
5. Filler: Plastic yarns
6. Core insulation: Mechanically high quality TPE mixture (according to bus specification)
7. Conductor: Fine-wire strand in especially bending-stable version consisting of bare copper wires

Example image
For detailed overview please see design table

Design table

Part No.	Core group	Colour code	Drawing
CFROBOT8.049	4x(2x0.15)C	white-green/green, white-orange/orange, white-blue/blue, white-brown/brown	



Example image



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Example image

Ethernet (CAT6/GigE/PoE) CFROBOT8.049

Electrical information

(Cable structure please see previous page)

Part No.	CFROBOT8.049
Nominal voltage	50 V 300 V (following UL)
Testing voltage (following DIN EN 50289-1-3)	500 V
Operating capacity (following DIN EN 50289-1-11)	55 pF/m
Nominal Velocity of Propagation (NVP)	67%
Characteristic wave impedance (following DIN EN 50289-1-11)	100 ± 40 Ω

Conductor nominal cross section [mm ²]	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2) [Ω/km]	Maximum current rating at 30 °C (following DIN VDE 0298-4) [A]
0.15	133	2.5

The final maximum current rating depends among other things on the ambient conditions, the type of the installation and the number of loaded cores.

Part No.	Bus type	Link class	Maximum transmission length
CFROBOT8.049	Ethernet/CAT6	Class E - (Data applications up to 250 MHz)	60 m



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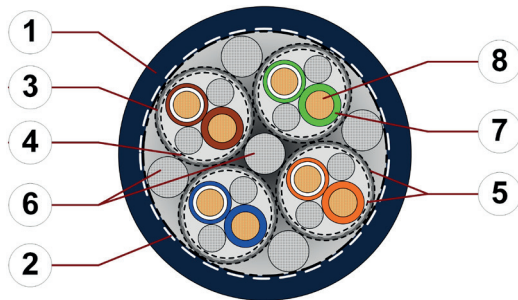
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Ethernet (CAT6_A)
CFROBOT8.050

Cable structure

(Electrical information please see next page)



1. Outer jacket: Pressure extruded PUR mixture
2. Overall banding: Plastic fleece
3. Element shield: Torsion resistant tinned braided copper shield
4. Element shield foil: Aluminium-coated polyester foil
5. Element banding: Plastic foil
6. Filler: Plastic yarns
7. Core insulation: Mechanically high quality TPE mixture (according to bus specification)
8. Conductor: Fine-wire strand in especially bending-stable version consisting of bare copper wires

Example image

For detailed overview please see design table

Design table

Part No.	Core group	Colour code	Drawing
CFROBOT8.050	4x(2x0.15)C	white-green/green, white-orange/orange, white-blue/blue, white-brown/brown	



Example image

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Example image

Ethernet (CAT6_A) CFROBOT8.050

Electrical information

(Cable structure please see previous page)

Part No.	CFROBOT8.050
Nominal voltage	50 V 300 V (following UL)
Testing voltage (following DIN EN 50289-1-3)	500 V
Operating capacity (following DIN EN 50289-1-11)	40 pF/m
Nominal Velocity of Propagation (NVP)	74%
Characteristic wave impedance (following DIN EN 50289-1-11)	100 ± 5 Ω

Conductor nominal cross section [mm ²]	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2) [Ω/km]	Maximum current rating at 30 °C (following DIN VDE 0298-4) [A]
0.15	121	2.5

The final maximum current rating depends among other things on the ambient conditions, the type of the installation and the number of loaded cores.

Part No.	Bus type	Link class	Maximum transmission length
CFROBOT8.050	Ethernet/CAT6 _A	Class EA - (Data applications up to 500 MHz)	60 m



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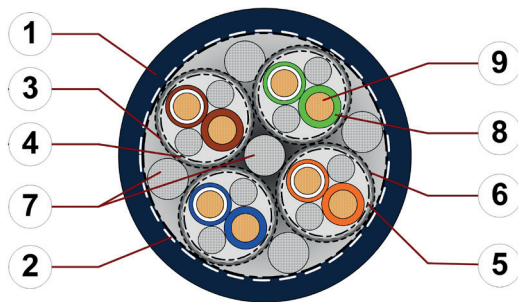


Bus cable (Class 6.1.3.3) ● For torsion applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● Notch-resistant ● Hydrolysis and microbe-resistant

Ethernet (CAT7)
CFROBOT8.052

Cable structure

(Electrical information please see next page)



1. Outer jacket: Pressure extruded PUR mixture
2. Overall banding: Plastic fleece
3. Element shield: Torsion resistant tinned braided copper shield
4. Element shield foil: Aluminium-coated polyester foil
5. Element banding: Plastic foil
6. Filler: Plastic yarns
7. Core insulation: Mechanically high quality TPE mixture (according to bus specification)
8. Conductor: Fine-wire strand in especially bending-stable version consisting of bare copper wires
9. (Label for the overall cable structure)

Example image

For detailed overview please see design table

Design table

Part No.	Core group	Colour code	Drawing
CFROBOT8.052	4x(2x0.15)C	white-green/green, white-orange/orange, white-blue/blue, white-brown/brown	



Example image



Data sheet

chainflex® CFROBOT8



Bus cable (Class 6.1.3.3) ● For torsion applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● Notch-resistant ● Hydrolysis and microbe-resistant



Example image

Ethernet (CAT7) CFROBOT8.052

Electrical information

(Cable structure please see previous page)

Part No.	CFROBOT8.052
Nominal voltage	50 V 300 V (following UL)
Testing voltage (following DIN EN 50289-1-3)	500 V
Operating capacity (following DIN EN 50289-1-11)	40 pF/m
Nominal Velocity of Propagation (NVP)	78%
Characteristic wave impedance (following DIN EN 50289-1-11)	100 ± 5 Ω

Conductor nominal cross section [mm ²]	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2) [Ω/km]	Maximum current rating at 30 °C (following DIN VDE 0298-4) [A]
0.15	121	2.5

The final maximum current rating depends among other things on the ambient conditions, the type of the installation and the number of loaded cores.

Part No.	Bus type	Link class	Maximum transmission length
CFROBOT8.052	Ethernet/CAT7	Class F - (Data applications up to 600 MHz)	60 m



Data sheet

chainflex® CFROBOT8

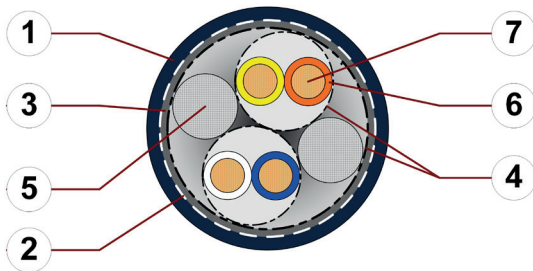


Bus cable (Class 6.1.3.3) ● For torsion applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● Notch-resistant ● Hydrolysis and microbe-resistant

Profinet (Type C) CFROBOT8.060

Cable structure

(Electrical information please see next page)



1. Outer jacket: Pressure extruded PUR mixture
2. Overall banding: Plastic fleece
3. Overall shield: Torsion resistant tinned braided copper shield
4. Banding: Gliding PTFE foil
5. Filler: Plastic yarns
6. Core insulation: Mechanically high quality TPE mixture (according to bus specification)
7. Conductor: Fine-wire strand in especially bending-stable version consisting of bare copper wires

Example image

For detailed overview please see design table

Design table

Part No.	Core group	Colour code	Drawing
CFROBOT8.060	(2x(2x0.34))C	white/blue, yellow/orange	



Example image

igus® chainflex® CFROBOT 8

Data sheet

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Example image

Profinet (Type C) CFROBOT8.060

Electrical information

(Cable structure please see previous page)

Part No.	CFROBOT8.060
Nominal voltage	50 V 300 V (following UL)
Testing voltage (following DIN EN 50289-1-3)	500 V
Operating capacity	48 pF/m
Nominal Velocity of Propagation (NVP)	74%
Characteristic wave impedance (following DIN EN 50289-1-11)	100 ± 5 Ω

Conductor nominal cross section [mm ²]	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2) [Ω/km]	Maximum current rating at 30 °C (following DIN VDE 0298-4) [A]
0.34	62	7

The final maximum current rating depends among other things on the ambient conditions, the type of the installation and the number of loaded cores.

