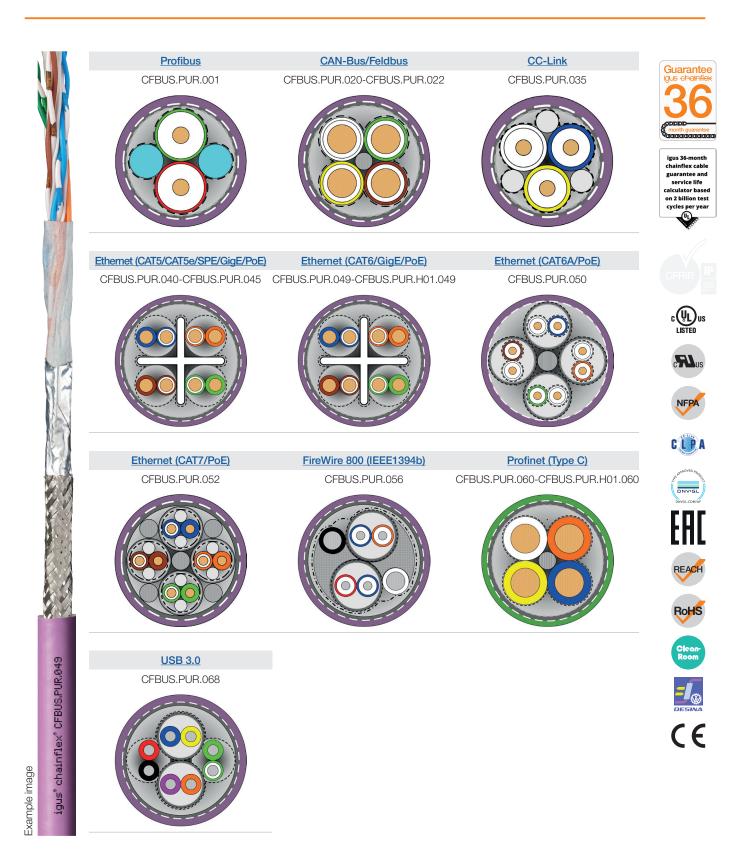


Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant



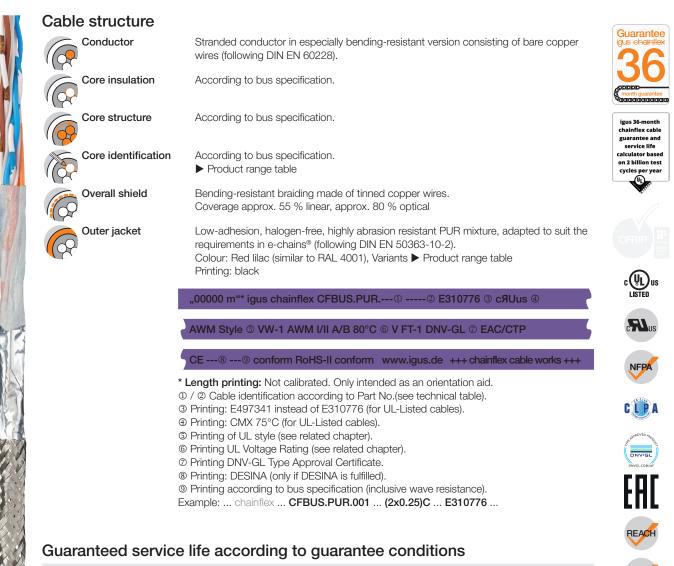
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Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant



Double strokes	5 million	7.5 million	10 million
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-20/-10	15	16	17
-10/+60	12.5	13.5	14.5
+60/+70	15	16	17

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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Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant





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RoHS

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Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant

Part No.	UL style core insulation	UL style outer jacket	UL Voltage Rating	UL Temperature Rating	3
			[V]	[°C]	
CFBUS.PUR.001	10578	20233	300	80	
CFBUS.PUR.020	10493	20233	30	80	igus : chain guara
CFBUS.PUR.021	10578	20233	300	80	ser
CFBUS.PUR.022	10578	20233	300	80	on 2 b cycle
CFBUS.PUR.035	10578	21161	300	80	
CFBUS.PUR.040	11602	20233	300	80	
CFBUS.PUR.042	11602	20233	300	80	
CFBUS.PUR.045	11635	20233	300	80	
CFBUS.PUR.049	11635	20233	300	80	
CFBUS.PUR.H01.049	11635	20233	300	80	c(
CFBUS.PUR.050	11635	20233	300	80	L
CFBUS.PUR.052	10493	20233	300	80	5
CFBUS.PUR.056	10578	21161	300	80	C1
CFBUS.PUR.060	11602	20233	300	80	
CFBUS.PUR.H01.060	11602	20233	300	80	N



chainflex[®] CFBUS.PUR.049

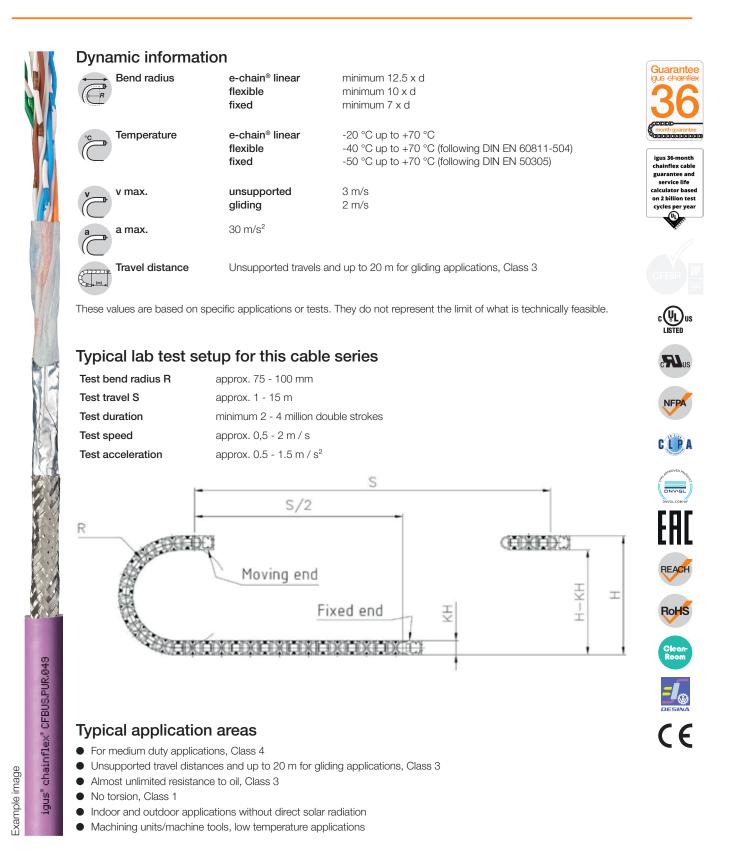
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Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant





Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant • Hydrolysis and microbe-resistant

Part No.		Number of cores and conductor nominal cross section [mm ²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
Profibus (1x2x0,64 mm	ı)				
FBUS.PUR.001		(2x0.25)C	8.5	25	75
CAN-Bus					
CFBUS.PUR.020 ²⁾		(4x0.25)C	7.5	23	64
FBUS.PUR.021		(2x0.5)C	8.5	32	82
CFBUS.PUR.022 ²⁾		(4x0.5)C	8.5	43	91
C-Link					
FBUS.PUR.035		(3x0.5)C	8.0	40	76
thernet/CAT5					
CFBUS.PUR.040 ²⁾	Ether CAT	· (4x0.25)C	6.5	29	69
Single Pair Ethernet					
FBUS.PUR.042	SPE	(2x0.15)C	5.5	12	33
thernet/CAT5e					
FBUS.PUR.045	CC-Línk IE Been	(4x(2x0.15))C	7.5	33	66
thernet/CAT6					
FBUS.PUR.049	CC-Línk IE 🖬 🕬	(4x(2x0.15))C	7.5	33	66
FBUS.PUR.H01.049		((4x(2x0.15))C+4x1.5)C	12.5	125	202
Ethernet/CAT6 _A					
FBUS.PUR.050		4x(2x0.20)C	10.0	65	120
thernet/CAT7					
FBUS.PUR.052		(4x(2x0.15)C)C	9.5	89	129
ireWire IEEE 1394b					
FBUS.PUR.056		(2x(2x0.15)C+2x0.38)C	9.0	59	91
Profinet					
CFBUS.PUR.060 ^{2) 13)}	GOODU [*] BOODB EtherCAT	(4x0.38)C	7.0	33	64
FBUS.PUR.H01.060		((4x0.38)C+4x1.5)C	11.5	120	196
JSB 3.0					
FBUS.PUR.068		(2x(2xAWG28)+2x(2xAWG28)C)C	7.0	39	64

¹³⁾ Colour outer jacket: Yellow-green (RAL 6018)

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.

chainflex[®] CFBUS.PUR.049

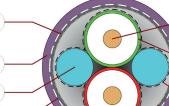
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Example image For detailed overview please see design table . .

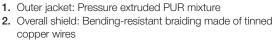
Design table)		
Part No.	Core group	Colour code	Core design
CFBUS.PUR.001	(2x0.25)C	red, green	8

Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded • Oil resistant and coolant-resistant • Flame retardant • PVC and halogen-free • Notch-



(Electrical information please see next page)

8 2 1 6 5 3 4



- 3. Overall banding: Plastic fleece
- 4. Shield foil: Aluminium clad plastic foil
- 5. Banding: Plastic foil
- 6. Filling: Plastic dummy
- 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

chainflex[®] CFBUS.PUR.049

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Data sheet chainflex[®] CFBUS.PUR

Profibus

CFBUS.PUR.001

Cable structure

resistant • Hydrolysis and microbe-resistant

Guarantee

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guarantee and service life

calculator based on 2 billion test

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cycles p er year

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Data sheet chainflex[®] CFBUS.PUR

Profibus

Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant

Electrical information	on			
Cable structure please see prev	<i>r</i> ious page)			
Part No.			CFBUS.PUR.00)1
Nominal voltage			50 V 300 V (following V	JL)
Testing voltage (following DIN EN 50289-1-3)			500 V	
Operating capacity			30 pF/m	
Characteristic wave impedar (following DIN EN 50289-1-11)			150 ± 15 Ω (≥ 1 M	1Hz)
ine attenuation approx. [dB/				10
Part No.	9.6 kH		4 MHz	16 MHz
		0.5	2.5	4.9
CFBUS.PUR.001	0.3	3 0.5		
Conductor nominal cross		ductor resistance at 2	20 °C Maximum cu (following DIN	rrent rating at 30 °C VDE 0298-4)
CFBUS.PUR.001 Conductor nominal cross section [mm ²]	Maximum con	ductor resistance at 2		

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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chainflex[®] CFBUS.PUR.049

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Guarantee

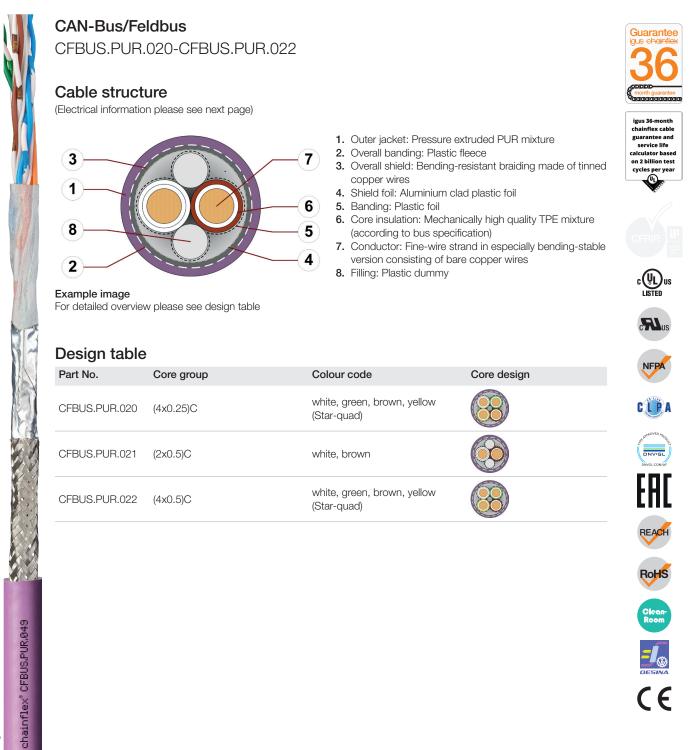
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Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant



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Data sheet chainflex[®] CFBUS.PUR

Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant

CAN-Bus/Feldbus

CFBUS.PUR.020-CFBUS.PUR.022

Electrical information

(Cable structure please see previous page)

Part No. CFBUS.PUR.020 CFBUS.PUR.021 CFBUS.PUR.022 50 V 50 V Nominal voltage 30 V following UL) 300 V following UL) Testing voltage 500 V (following DIN EN 50289-1-3) **Operating capacity** 42 pF/m 41 pF/m 42 pF/m Characteristic wave impedance $120 \pm 12 \Omega (\ge 1 \text{ MHz})$ (following DIN EN 50289-1-11)

Line attenuation approx. [dB/100m]

Part No.	0.1 MHz	1 MHz	5 MHz	10 MHz	20 MHz
CFBUS.PUR.020	1.3	1.9	4.8	6.9	9.5
CFBUS.PUR.021	0.6	1.3	3.3	4.7	6.8
CFBUS.PUR.022	0.8	1.8	4.0	5.8	8.5

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]
0.25	84	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.

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chainflex cable guarantee and

service life calculator based











Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant



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Data sheet chainflex[®] CFBUS.PUR

Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant • Hydrolysis and microbe-resistant

able structure please see prev	vious page)		
Part No.		C	FBUS.PUR.035
Nominal voltage		30	50 V 00 V (following UL)
Testing voltage (following DIN EN 50289-1-3)			500 V
Characteristic wave impedar (following DIN EN 50289-1-11)		110	± 16.5 Ω (≥ 1 MHz)
Conductor nominal cross section		nductor resistance at 20 °C EN 50289-1-2)	Maximum current rating at 30 °C (following DIN VDE 0298-4)
[mm²]	[Ω/km]		[A]

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

Example image

Guarantee

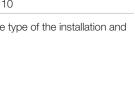






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CC-Link



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Data sheet chainflex[®] CFBUS.PUR

Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded • Oil resistant and coolant-resistant • Flame retardant • PVC and halogen-free • Notchresistant

Hydrolysis and microbe-resistant

Ethernet (CAT5/CAT5e/SPE/GigE/PoE) Guarantee CFBUS.PUR.040-CFBUS.PUR.045 Cable structure (Electrical information please see next page) 1. Outer jacket: Pressure extruded PUR mixture 2. Overall banding: Plastic fleece calculator based on 2 billion test cycles per year 8 4 3. Shield foil: Aluminium clad plastic foil 4. Overall shield: Bending-resistant braiding made of tinned 1 copper wires 7 5. Banding: Plastic foil 6. Separating element: Bending-stable TPE cross filler 6 7. Core insulation: Mechanically high quality TPE mixture 3 (according to bus specification) 8. Conductor: Fine-wire strand in especially bending-stable 2 5 version consisting of bare copper wires Example image For detailed overview please see design table Design table NFP Part No. Core group Colour code Core design white, green, brown, yellow CFBUS.PUR.040 (4x0.25)C (Star-quad) CFBUS.PUR.042 (2x0.15)C white/blue white-blue/blue, white-orange/ CFBUS.PUR.045 (4x(2x0.15))C orange, white-green/green, white-brown/brown









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Example image

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chainflex[®] CFBUS.PUR.049

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Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant

Ethernet (CAT5/CAT5e/GigE/PoE)

CFBUS.PUR.040-CFBUS.PUR.045

Electrical information

(Cable structure please see previous page)

Part No. CFBUS.PUR.040 CFBUS.PUR.042 CFBUS.PUR.045 50 V Nominal voltage 300 V (following UL) Testing voltage 500 V (following DIN EN 50289-1-3) Characteristic wave impedance $100 \pm 15 \Omega$ (following DIN EN 50289-1-11) 48 pF/m 50 pF/m **Operating capacity** 47 pF/m Nominal Velocity of Propagation (NVP) 67 % 72 %

Line attenuation approx. [dB/100m]

Part No.	1 MHz	4 MHz	10 MHz	16 MHz	20 MHz	31.25 MHz	62.5 MHz	100 MHz
CFBUS.PUR.040	1.7	4.2	7.0	9.2	10.4	13.2	19.4	25.3
CFBUS.PUR.042	3.1	5.6	8.7	11.0	12.3	15.4	21.9	27.8
CFBUS.PUR.045	2.5	5.0	8.3	10.6	11.7	15.0	21.9	28.6

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]
0.15	145	2.5
0.25	94	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 tra Channel	ansmission length Permanent
CFBUS.PUR.040	Ethernet/CAT5	Class D - (Data applications up to 100 MHz)	82 m	70 m
CFBUS.PUR.045	Ethernet/CAT5e	Class D - (Data applications up to 100 MHz)	82 m	70 m

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service life calculator based

cycles per yea





chainflex[®] CFBUS.PUR.049

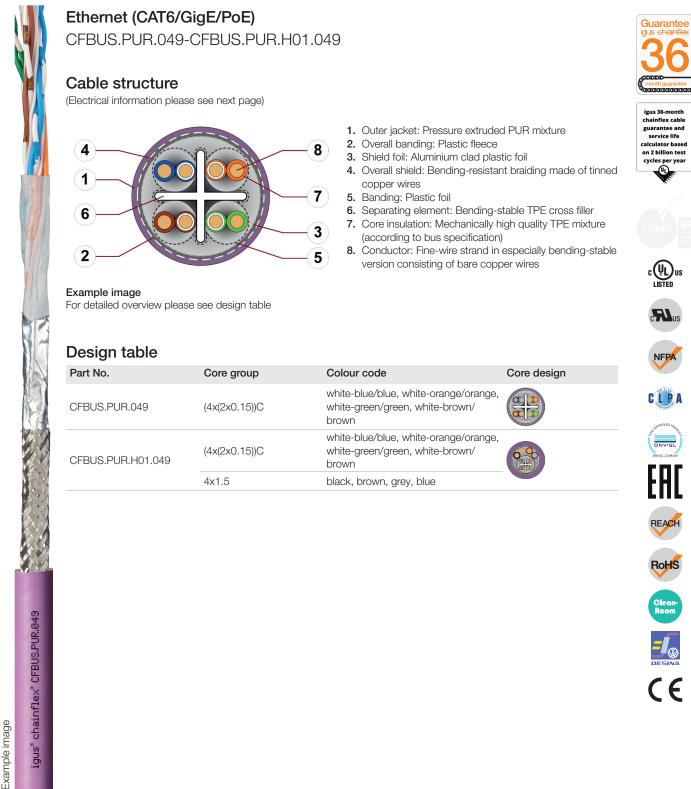
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other features. Please refer regarding the availability of the items especially the information in the latest chainflex® catalogue.

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Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded • Oil resistant and coolant-resistant • Flame retardant • PVC and halogen-free • Notchresistant

Hydrolysis and microbe-resistant







Example image

chainflex[®] CFBUS.PUR.049

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Data sheet chainflex[®] CFBUS.PUR

Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant

Ethernet (CAT6/GigE/PoE)

CFBUS.PUR.049-CFBUS.PUR.H01.049

Electrical information

(Cable structure please see previous page)

Part No.	CFBUS.PUR.049 CFBUS.PUR.H01.049					
Nominal voltage	50 V 300 V (following UL)					
Testing voltage (following DIN EN 50289-1-3)	500 V					
Operating capacity	47 pF/m					
Nominal Velocity of Propagation (NVP)	72 %					
Characteristic wave impedance (following DIN EN 50289-1-11)	100 ±	15 Ω				

Line attenuation approx. [dB/100m]

Line allenuation app	10X. [UD/	TUUIII									
Part No.	1 MHz	4 MHz	10 MHz	16 MHz	20 MHz	31.25 MHz	62.5 MHz	100 MHz	155.5 MHz	200 MHz	250 MHz
CFBUS.PUR.049	2.5	5.0	8.3	10.6	11.7	15.0	21.9	28.6	38.6	42.9	47.7
CFBUS.PUR.H01.049	2.5	5.0	8.3	10.6	11.7	15.0	21.9	28.6	38.6	42.9	47.7

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)
[mm ²]	[Ω/km]	[A]
0.15	145	2.5
1.5	14,3	21

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 tran Channel	smission length Permanent
CFBUS.PUR.049	Ethernet/CAT6	Class E - (Data applications up to 250 MHz)	74 m	63 m
CFBUS.PUR.H01.049	Ethernet/CAT6	Class E - (Data applications up to 250 MHz)	74 m	63 m



chainflex cable guarantee and service life calculator based on 2 billion test cycles per year













Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant



• Oil resistant and coolant-resistant • Flame retardant • PVC and halogen-free • Notchresistant • Hydrolysis and microbe-resistant

chainflex[®] CFBUS.PUR

Data sheet



Electrical information

(Cable structure please see previous page)

Part No.	CFBUS.PUR.050
Nominal voltage	50 V 300 V (following UL)
Testing voltage (following DIN EN 50289-1-3)	500 V
Operating capacity	45 pF/m
Nominal Velocity of Propagation (NVP)	76 %
Characteristic wave impedance (following DIN EN 50289-1-11)	100 ± 15 Ω

Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded

Line attenuation approx [dB/100m]

Part No.	•	4 MHz							155.52 MHz				500 MHz
CFBUS.PUR.050	2.2	4.6	7.2	9.1	10.1	12.6	18.1	23.4	30.6	35.7	40.8	49.4	60.9

Conductor nominal cross section		
[mm²]	[Ω/km]	[A]
0.2	113	3.5

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

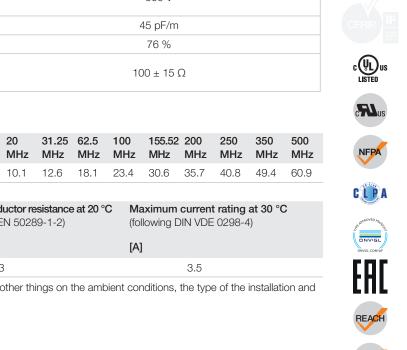
Part No.	Bus type	Link class	Maximum tran	smission length
			Channel	Permanent
CFBUS.PUR.050	Ethernet/CAT6A	Class EA - (Data applications up to 500 MHz)	73 m	62 m



chainflex[®] CFBUS.PUR.049

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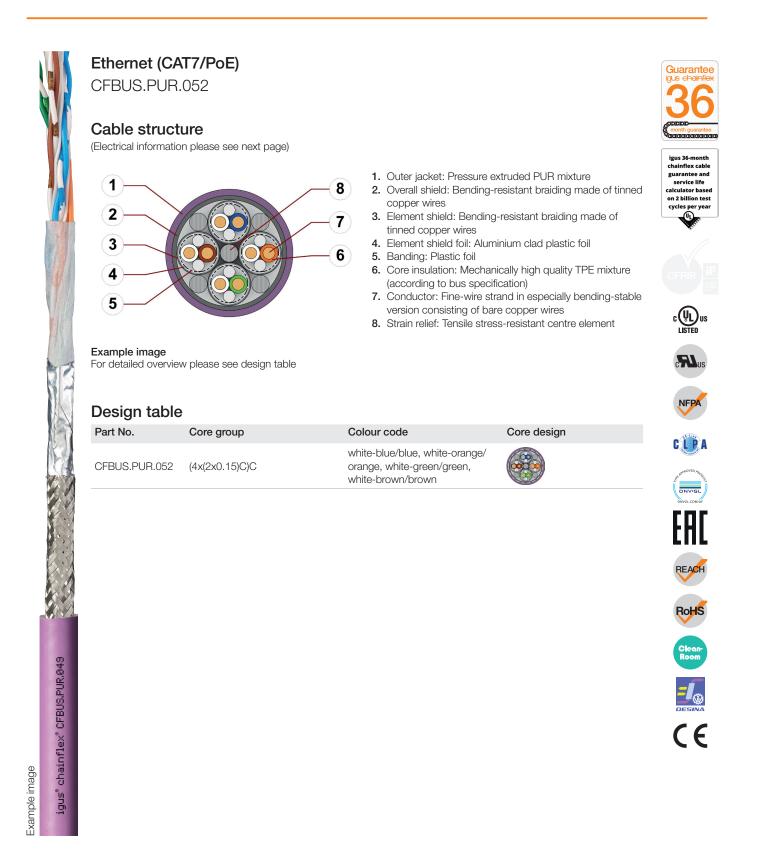




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Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant



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Example image

chainflex[®] CFBUS.PUR.049

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Ethernet (CAT7/PoE)

Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant

Electrical inf												
Cable structure ple	ase see	orevious	page)									
Part No.							C	FBUS.P	UR.052			
Nominal voltage							30	50 \ 00 V (follo	-			
Testing voltage (following DIN EN 50289-1-3)					500 V							
Operating capacit	y				48 pF/m							
Nominal Velocity	of Propa	gation (NVP)		68 %							
Characteristic wa (following DIN EN 5								100 ± 1	15 Ω			
_ine attenuation a	oprox. [c	dB/100m	1									
Part No.	1 MHz	4 MHz	10 MHz	16 MHz	20 MHz	31.25 MHz	62.5 MHz	100 MHz	155.52 MHz	250 MHz	500 MHz	600 MHz
CFBUS.PUR.052	2.5	5.2	8.3	10.4	11.6	14.7	21.5	27.7	35.5	45.6	67.2	73.0
Conductor nominal cross Maximum con section (following DIN B)							20 °C		im currer g DIN VD			С
[mm ²]		[0	ጋ/km]		[A]							
		-	_					-				

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 tra	ansmission length
			Channel	Permanent
CFBUS.PUR.052	Ethernet/CAT7	Class F - (Data applications up to 600 MHz)	71 m	60 m



Guarantee

chainflex cable guarantee and service life calculator based on 2 billion test cycles per year





Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant



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Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant • Hydrolysis and microbe-resistant

chainflex[®] CFBUS.PUR

FireWire 800 (IEEE1394b)

Electrical information (Cable structure please see previous page)

CFBUS.PUR.056

Data sheet

	CFBUS.PUR.056					
	50 V 300 V (following UL)					
		5	00 V			
Data pair: 45 pF/m						
	Ľ	Data pair: 110 \pm	16.5 Ω (1-250 N	1Hz)		
Dm]						
250	400 MHz	500 MHz	800 MHz	1000 MHz		
MHz	IVITIZ	1411 12				
	Dm]	Dm]	5 300 V (fc 5 Data pa Data pair: 110 ±	50 V 300 V (following UL) 500 V Data pair: 45 pF/m Data pair: 110 ± 16.5 Ω (1-250 N		

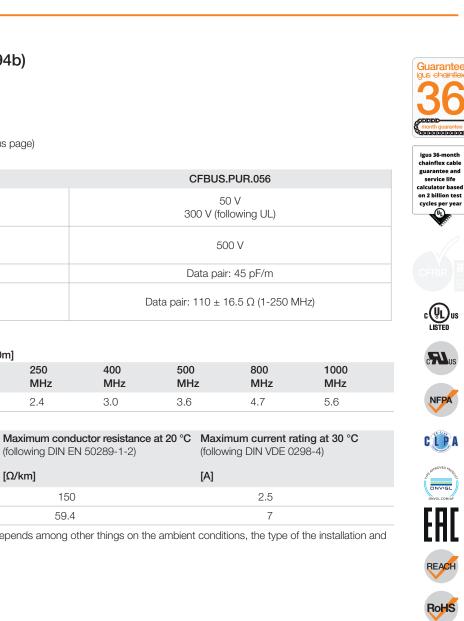
section	(following DIN EN 50289-1-2)	(following DIN VDE 0298-4)
[mm²]	[Ω/km]	[A]
0.15	150	2.5
0.38	59.4	7
The final maximum ourrest ratio	a depende among other things on the amhie	ant conditions, the type of the installation and

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

09/2020

chainflex[®] CFBUS.PUR.049

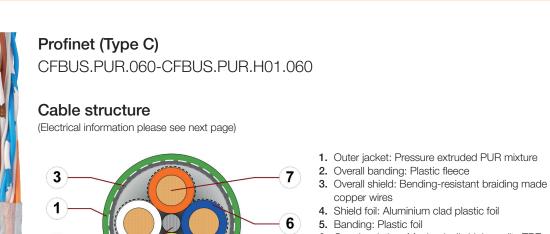
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Data sheet chainflex[®] CFBUS.PUR

Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded • Oil resistant and coolant-resistant • Flame retardant • PVC and halogen-free • Notchresistant • Hydrolysis and microbe-resistant



- 4 5
- 3. Overall shield: Bending-resistant braiding made of tinned
 - 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
 - 8. Strain relief: Tensile stress-resistant centre element



flex cabl

guarantee and service life



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Example image

For detailed overview please see design table

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Part No.	Core group	Colour code	Core design
CFBUS.PUR.060	(4x0.38)C	white, orange, blue, yellow (Star-quad)	(3)
CFBUS.PUR.H01.060	(4x0.38)C	white, orange, blue, yellow (Star-quad)	63
	4x1.5	black, brown, grey, blue	



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Data sheet chainflex[®] CFBUS.PUR

Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant

Profinet (Type C)

CFBUS.PUR.060-CFBUS.PUR.H01.060

Electrical information

(Cable structure please see previous page)

Part No.	CFBUS.PUR.060	CFBUS.PUR.H01.060	
Nominal voltage	50 V 300 V (following UL)		
Testing voltage (following DIN EN 50289-1-3)	500 V		
Operating capacity	53 pF/m		
Nominal Velocity of Propagation (NVP)	67 %		
Characteristic wave impedance (following DIN EN 50289-1-11)	100 ± 15 Ω		

Line attenuation approx. [dB/100m]

Line attenuation approx. [ub/10011]								
Part No.	1	4	10	16	20	31.25	62.5	100
	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz
CFBUS.PUR.060	2.0	4.1	6.2	7.8	8.7	11.0	16.3	21.2
CFBUS.PUR.H01.060	1.7	3.7	6.3	8.4	9.6	12.6	17.7	26.4

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)		
[mm ²]	[Ω/km]	[A]		
0.38	59.4	7		
1.5	13	21		

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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Guarantee gus chainflex **36** chainflex additional chainflex additional chainflex additional chainflex

chainflex cable guarantee and service life calculator based



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CFBUS.PUR.068 Cable structure (Electrical information please see next page)

3 8 2 7 5 6 1 4

- 1. Outer jacket: Pressure extruded PUR mixture
- 2. Overall banding: Plastic fleece
- 3. Overall shield: Bending-resistant braiding made of tinned
- copper wires
- 4. Banding: Plastic foil
- 5. Element shield: Bending-resistant braiding made of tinned copper wires
- 6. Shield foil: Aluminium clad 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 tinned copper wires



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REACH

RoHS

CE

Guarantee

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guarantee and service life

calculator based on 2 billion test

cycles p r year

For detailed overview please see design table

Example image

Design table

Part No.	Core group	Colour code	Core design
CFBUS.PUR.068	2x(2xAWG28)	red/black, green/white-green	
	2x(2xAWG28)C	blue/yellow, orange/violet	

Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded • Oil resistant and coolant-resistant • Flame retardant • PVC and halogen-free • Notch-



09/2020

Data sheet chainflex[®] CFBUS.PUR

USB 3.0

resistant • Hydrolysis and microbe-resistant

26/26

Data sheet chainflex[®] CFBUS.PUR

USB 3.0

CFBUS.PUR.068

Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant • Hydrolysis and microbe-resistant

Electrical information (Cable structure please see previo						
Part No.	CFBUS.PUR.068					
Nominal voltage		50 V 300 V (following UL)				
Testing voltage (following DIN EN 50289-1-3)		500 V				
Operating capacity		STP: 60 pF/m		UTP: 52 pF/m		
Nominal Velocity of Propagation (NVP)		STP: 70 %		UTP: 67 %		
Characteristic wave impedance (following DIN EN 50289-1-11)		STP: 90 ± 18 Ω (1-1200 MHz)		UTP: 105 ± 16 Ω (1-1200 MHz)		
Line attenuation approx. [dB/1]	00m]					
Part No.		1 MHz	625 MHz	1200 MHz		
CFBUS.PUR.068		0.4	11.5	18.0		
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)		
[mm ²]	[Ω/km]		[A]			
AWG28	20	05		1		
		-	ient conditi	ons the type of the installation and		

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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chainflex[®] CFBUS.PUR.049

Guarantee

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