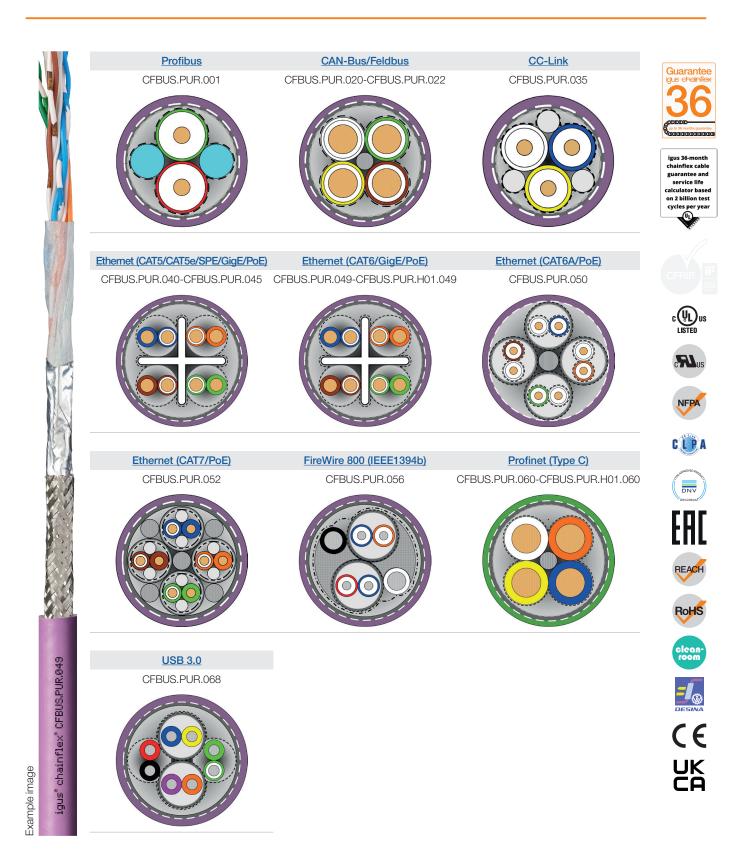


Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant



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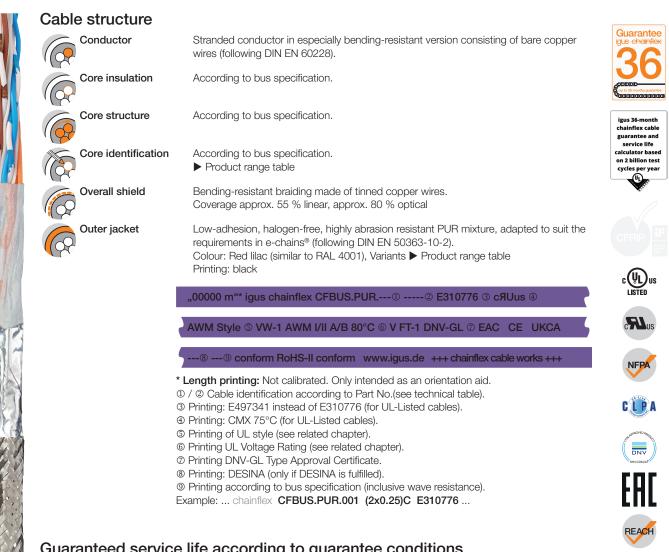


RoHS

CE

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



Guaranteed service life according to guarantee conditions

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.

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

	IV resistance	Medium	Gi
)il resistance	Oil-resistant (following DIN EN 50363-10-2), Class 3	
oil			B
	Offshore	MUD-resistant following NEK 606 - status 2009	ig ch: gu
F	lame retardant	According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame	cald on cy
s	ilicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)	
	lalogen-free	Following DIN EN 60754	
	IL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"	C
	IL-Listed	CMX, 75°C (except CFBUS.PUR.068)	
	IL/CSA AWM	Details see table UL/CSA AWM	
NFPA N	IFPA	Following NFPA 79-2018, chapter 12.9	
C (PA C	CLPA	CFBUS.PUR.045: CC-Línk IE Field, Reference no. 151 CFBUS.PUR.049: CC-Línk IE Field, Reference no. 152	l
	DNV-GL	Type approval certificate No. TAE00003X6 CFBUS.PUR.040-CFBUS.PUR.052: Type approval certificate No. TAE00003X8	(
FAIL E	AC	Certificate No. RU C-DE.ME77.B.00295/19	
REACH	REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)	(
RoHS	ead-free	Following 2011/65/EC (RoHS-II/RoHS-III)	(
clean- room	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	(
	DESINA	According to VDW, DESINA standardisation	
	E	Following 2014/35/EU	(
UK U	IKCA	In accordance with the valid regulations of the United Kingdom (as at 08/2021)	

Example image



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	(DDD
CFBUS.PUR.001	10578	20233	[M] 300	[° C] 80	Galac
					igus
CFBUS.PUR.020	10493	20233	30	80	chai guai
CFBUS.PUR.021	10578	20233	300	80	se calcu
CFBUS.PUR.022	10578	20233	300	80	on 2 cycl
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	I
CFBUS.PUR.052	10493	20233	300	80	c
CFBUS.PUR.056	10578	21161	300	80	U
CFBUS.PUR.060	11602	20233	300	80	
CFBUS.PUR.H01.060	11602	20233	300	80	

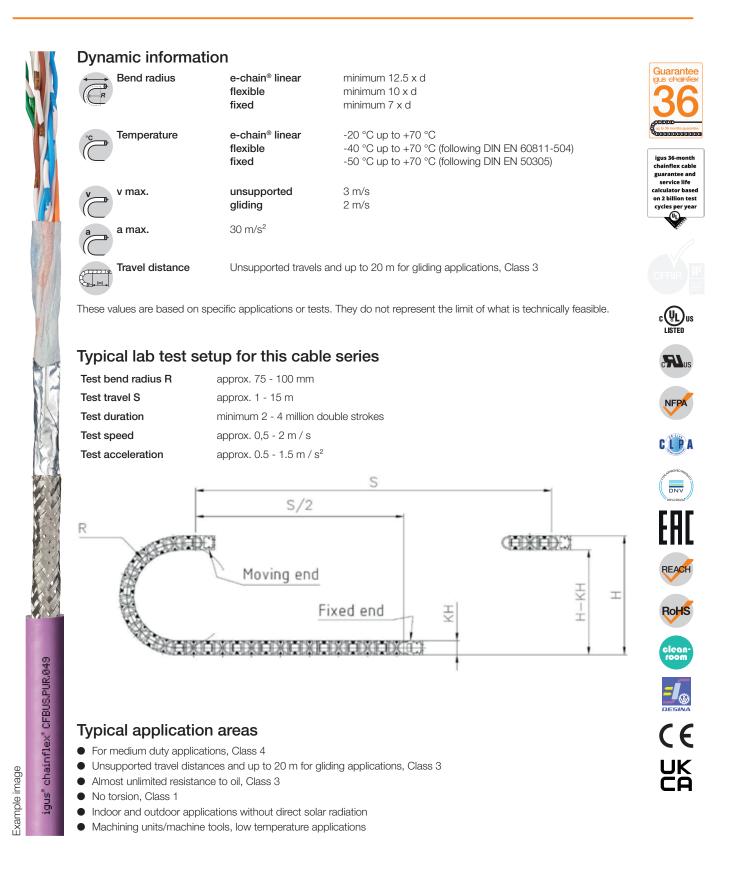


chainflex[®] CFBUS.PUR.049

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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





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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

art No.		Number of cores and conductor nominal cross section [mm ²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
rofibus (1x2x0,64 mm)	[]	[rund	[K9/KIII]	
FBUS.PUR.001		(2x0.25)C	8.5	25	75
AN-Bus					
FBUS.PUR.020 ²⁾		(4x0.25)C	7.5	23	64
FBUS.PUR.021		(2x0.5)C	8.5	32	82
FBUS.PUR.022 2)		(4x0.5)C	8.5	43	91
C-Link					
FBUS.PUR.035		(3x0.5)C	8.0	40	76
hernet/CAT5					
FBUS.PUR.040 ²⁾	Ether CAT	(4x0.25)C	6.5	29	69
ngle Pair Ethernet					
FBUS.PUR.042	SPE	(2x0.15)C	5.5	12	33
thernet/CAT5e					
FBUS.PUR.045	CC-Línk IE Basa	(4x(2x0.15))C	7.5	33	66
thernet/CAT6					
FBUS.PUR.049	CC-Línk IE Beld	(4x(2x0.15))C	7.5	33	66
FBUS.PUR.H01.049		((4x(2x0.15))C+4x1.5)C	12.5	125	202
thernet/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
reWire IEEE 1394b					
FBUS.PUR.056		(2x(2x0.15)C+2x0.38)C	9.0	59	91
rofinet					
FBUS.PUR.060 ^{2) 13)}	DODDO [*] BOODD EtherCAT	(4x0.38)C	7.0	33	64
FBUS.PUR.H01.060		((4x0.38)C+4x1.5)C	11.5	120	196
SB 3.0					

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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Profibus CFBUS.PUR.001



resistant • Hydrolysis and microbe-resistant

(Electrical information please see next page)

For detailed overview please see design table

Core group

(2x0.25)C

Cable structure

2

1

6

3

Example image

Design table

CFBUS.PUR.001

Part No.

Data sheet



8

5

Δ

Colour code

red, green

copper wires

5. Banding: Plastic foil 6. Filling: Plastic dummy

3. Overall banding: Plastic fleece 4. Shield foil: Aluminium clad plastic foil

(according to bus specification)

version consisting of bare copper wires

7. Core insulation: Mechanically high quality TPE mixture

8. Conductor: Fine-wire strand in especially bending-stable

Core design

1. Outer jacket: Pressure extruded PUR mixture guarantee and calculator based on 2 billion test 2. Overall shield: Bending-resistant braiding made of tinned cycles p

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REACH

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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

Electrical informatic						
Cable structure please see pre Part No.	nous page)		CFBI	JS.PUR.001		
Nominal voltage	50 V 300 V (following UL)					
Testing voltage (following DIN EN 50289-1-3)	500 V 30 pF/m					
Operating capacity						
Characteristic wave impedar (following DIN EN 50289-1-11)		150 ± 15 Ω (≥ 1 MHz)				
Line attenuation approx. [dB/	100m]					
Part No.	9.6 kH			4 MHz	16 MHz	
CFBUS.PUR.001	0.3	0.5		2.5	4.9	
			20 °C Ma	aximum currer	nt rating at 30 °C	
Conductor nominal cross section	Maximum con (following DIN B	ductor resistance at EN 50289-1-2)		lowing DIN VD	E 0298-4)	
				-	E 0298-4)	

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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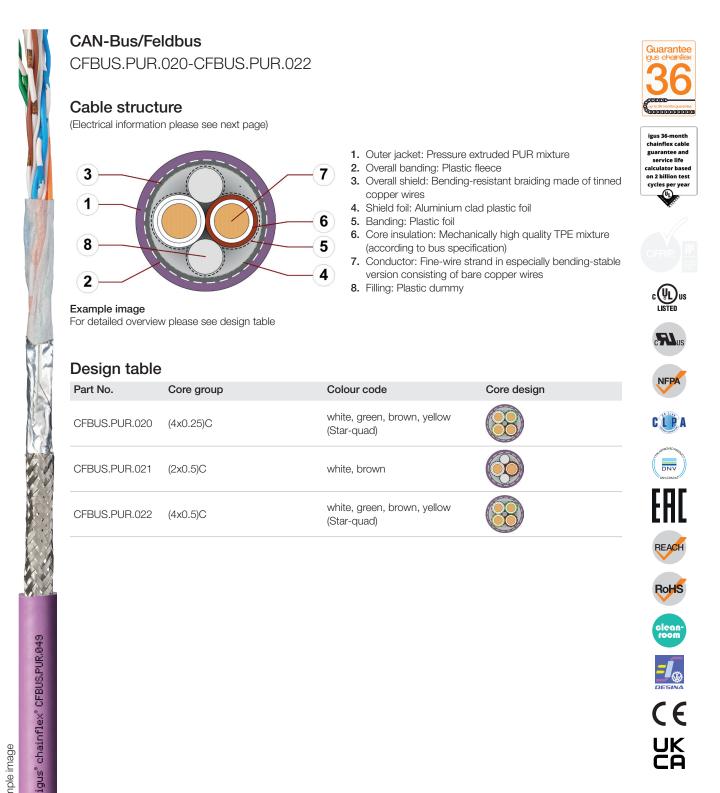




UK CA



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

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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.02				
Nominal voltage	50 V50 V30 V following UL)300 V following UL)				
Testing voltage (following DIN EN 50289-1-3)	500 V				
Operating capacity	42 pF/m 41 pF/m 42 pF/m				
Characteristic wave impedance (following DIN EN 50289-1-11)	120 ± 12 Ω (≥ 1 MHz)				

Line attenuation approx. [dB/100m]

0.5

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[®] 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



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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

CFBUS.PUR.035				gue chainflex
Electrical informatio				igus 36-month chainflex cable
Part No.		C	FBUS.PUR.035	guarantee and service life calculator based
Nominal voltage		30	50 V 00 V (following UL)	on 2 billion test cycles per year
Testing voltage (following DIN EN 50289-1-3)			500 V	
Characteristic wave impedan (following DIN EN 50289-1-11)		110	± 16.5 Ω (≥ 1 MHz)	CFRIP
		·		C ULUSTED US
Conductor nominal cross section		ductor resistance at 20 °C EN 50289-1-2)	Maximum current rating at 3 (following DIN VDE 0298-4)	30 °C
[mm²]	[Ω/km]		[A]	NFPA
0.5	3	39	10	

allation and the number of loaded cores.

chainflex[®] CFBUS.PUR.049

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CC-Link



Guarantee

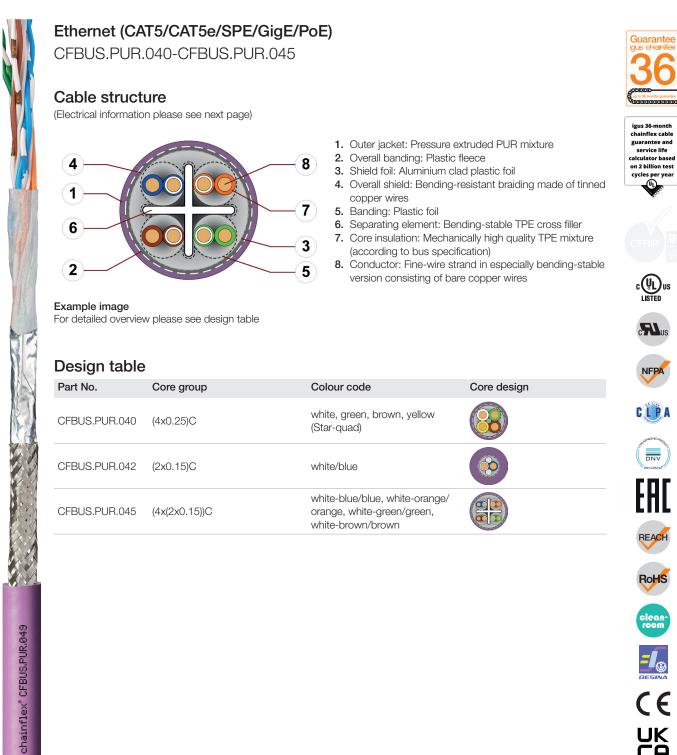
section	(following DIN EN 50289-1-2)	(following DIN VDE 0298-4)	
[mm²]	[Ω/km]	[A]	
0.5	39	10	
The final maximum current rating	depends among other things on the ambien	t conditions, the type of the instal	

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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



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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/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						
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)	100 ± 15 Ω						
Operating capacity	50 pF/m 48 pF/m 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)		
[mm ²]	[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

chainflex[®] CFBUS.PUR.049

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



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Example image

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Ethernet (CAT6/GigE/PoE) CFBUS.PUR.049-CFBUS.PUR.H01.049

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-

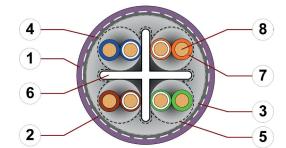
Cable structure

chainflex[®] CFBUS.PUR

Data sheet

(Electrical information please see next page)

resistant • Hydrolysis and microbe-resistant



- 1. Outer jacket: Pressure extruded PUR mixture
- 2. Overall banding: Plastic fleece
- 3. Shield foil: Aluminium clad plastic foil
- 4. Overall shield: Bending-resistant braiding made of tinned copper wires
- 5. Banding: Plastic foil
- 6. Separating element: Bending-stable TPE cross filler
- 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	Core design
CFBUS.PUR.049	(4x(2x0.15))C	white-blue/blue, white-orange/orange, white-green/green, white-brown/ brown	
CFBUS.PUR.H01.049	(4x(2x0.15))C	white-blue/blue, white-orange/orange, white-green/green, white-brown/ brown	
	4x1.5	black, brown, grey, blue	China St.

chainflex[®] CFBUS.PUR.049

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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 p	F/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 attenuation approx. [db/100m]											
Part No.	1	4	10	16	20	31.25	62.5	100	155.5	200	250
	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	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

service life calculator based on 2 billion test cycles per year

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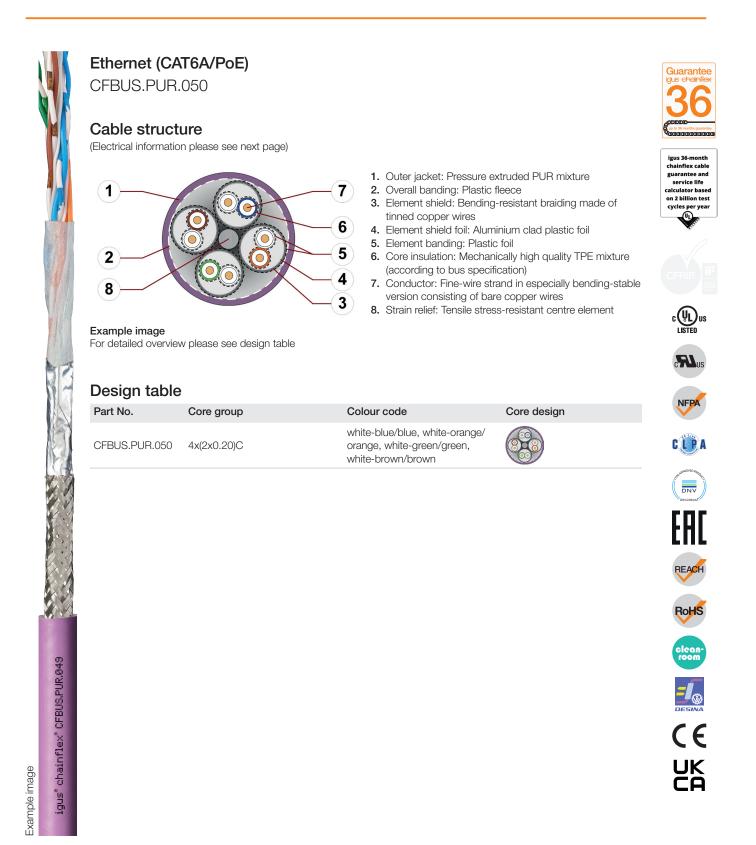
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Bus cable (Class 4.3.3.1) ● For medium duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notchresistant ● Hydrolysis and microbe-resistant





Guarantee

igus 36-month 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

Example image	igus° chainflex° CFBUS,PUR,049

Ethernet (CAT6A/PoE)

CFBUS.PUR.050

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	

Line attenuation approx. [dB/100m]

Part No.	1 MHz	4 MHz	10 MHz	16 MHz					155.52 MHz		250 MHz	350 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	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]
0.2	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 transmission leng	
			Channel	Permanent
CFBUS.PUR.050	Ethernet/CAT6A	Class EA - (Data applications up to 500 MHz)	73 m	62 m



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

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

Cable structure plea			page)									
Part No.							C	FBUS.P	UR.052			
Nominal voltage							30	50 V 00 V (follo	-			
Testing voltage (following DIN EN 50289-1-3)							500	V				
Operating capacit	ty				48 pF/m							
Nominal Velocity	of Propa	gation (NVP)		68 %							
Characteristic wave impedance (following DIN EN 50289-1-11)								100 ± 1	5 Ω			
Line 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
	2.5	5.2	8.3	10.4	11.6	14.7	21.5	27.7	35.5	45.6	67.2	73.0
CFBUS.PUR.052			Conductor nominal cross Maximum conductor section (following DIN E									
Conductor nomina	al cross						20 °C		g DIN VD	-	•	С
Conductor nomina	al cross	(f					20 °C			-	•	С

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





igus 36-month chainflex cable guarantee and service life







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REACH

RoHS

CE

UK

Example image



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





Guarante

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



FireWire 800 (IEEE1394b)

CFBUS.PUR.056

Electrical information

(Cable structure please see previous page)

(igus 36-month chainflex cable
Part No.	CFBUS.PUR.056	guarantee and service life calculator based
Nominal voltage	50 V 300 V (following UL)	on 2 billion test cycles per year
Testing voltage (following DIN EN 50289-1-3)	500 V	
Operating capacity	Data pair: 45 pF/m	
Characteristic wave impedance (following DIN EN 50289-1-11)	Data pair: 110 \pm 16.5 Ω (1-250 MHz)	c(ŲL)us

Line attenuation approx. [dB/100m]

Part No.	250	400	500	800	1000
	MHz	MHz	MHz	MHz	MHz
CFBUS.PUR.056	2.4	3.0	3.6	4.7	5.6

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	150	2.5
0.38	59.4	7

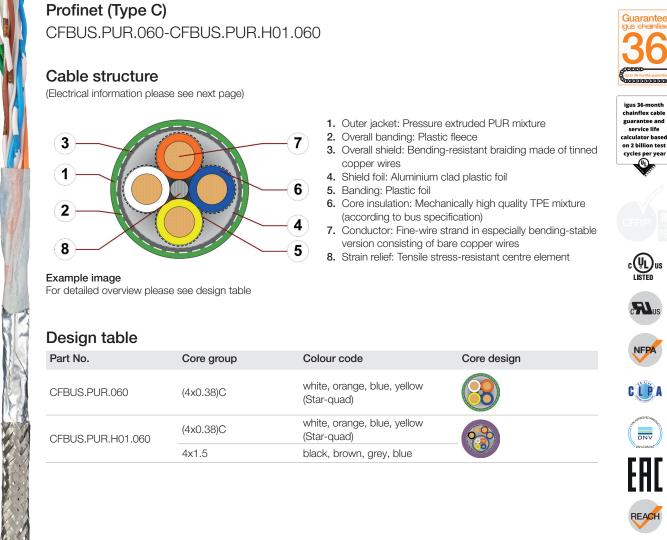
The final maximum current rating depends among other things on the ambient conditions, the type of the installation and the number of loaded cores.

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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



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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]

Part No.	1 MHz	4 MHz	10 MHz	16 MHz	20 MHz	31.25 MHz	62.5 MHz	100 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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chainflex cable guarantee and service life calculator based on 2 billion test cycles per year









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USB 3.0 CFBUS.PUR.068

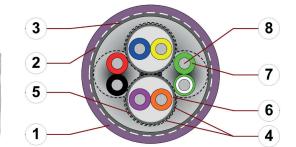
Cable structure

chainflex[®] CFBUS.PUR

Data sheet

(Electrical information please see next page)

resistant • Hydrolysis and microbe-resistant



- 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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guarantee and service life

calculator based on 2 billion test

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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.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-



Example image

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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

ectrical information					
art No.			CFBUS.	PUR.068	
ominal voltage) V lowing UL)	
esting voltage Illowing DIN EN 50289-1-3)		50	0 V		
perating capacity		STP: 60 pF	/m	UTP: 52 pF/m	
ominal Velocity of Propagation (NVP) STP: 70 %			UTP: 67 %		
naracteristic wave impedance Illowing DIN EN 50289-1-11)		STP: 90 ± 18 Ω (1-1200 MHz)		UTP: 105 ± 16 Ω (1-1200 MH	
e attenuation approx. [dB/10 art No.	0m]	1 MHz	625 MHz	1200 MHz	
-BUS.PUR.068		0.4	11.5	18.0	
onductor nominal cross ection		iductor resistance at 2 EN 50289-1-2)		num current rating at 30 °C ring DIN VDE 0298-4)	
1m²]	[Ω/km]		[A]		
AWG28	20	05		1	
e final maximum current rating on number of loaded cores.	depends among	other things on the ar	nbient conditi	ons, the type of the installation a	

USB 3.0

CFBUS.PUR.068

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CFBUS.PUR.068				
50 V 300 V (following UL)				
500 V				
STP: 60 pF/m	UTP: 52 pF/m			
STP: 70 %	UTP: 67 %			
STP: 90 ± 18 Ω (1-1200 MHz)	UTP: 105 ± 16 Ω (1-1200 MHz)			
	50 300 V (fol 50 STP: 60 pF/m STP: 70 %			

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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	205	1

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Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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CFBUS.PUR.020CFBUS.PUR.040CFBUS.PUR.060CFBUS.PUR.022CFBUS.PUR.050CFBUS.PUR.021CFBUS.PUR.068CFBUS.PUR.052CFBUS.PUR.001CFBUS.PUR.H01.060CFBUS.PUR.H01.049CFBUS.PUR.042CFBUS.PUR.049CFBUS.PUR.045CFBUS.PUR.035CFBUS.PUR.056CFBUS.PUR.056