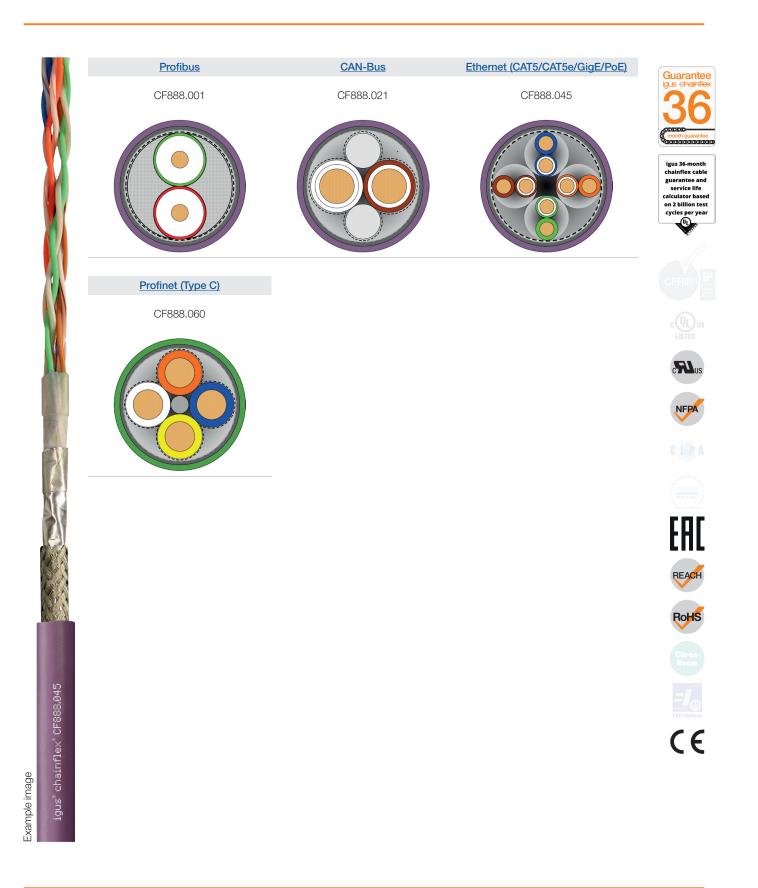


Bus cable (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket ● Shielded ● Flame retardant





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Bus cable (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket ● Shielded ● Flame retardant

Conductor	Conductor consisting of bare copper wires (according to DIN EN 60228).	
Core insulation	According to bus specification.	
Core structure	According to bus specification.	igus 36- chainfle guarant
Core identification	According to bus specification. ► Product range table	servic calculato on 2 billi cycles p
Overall shield	Braiding made of tinned copper wires. Coverage approx. 60 % optical	
Outer jacket	Low-adhesion PVC mixture, adapted to suit the requirements in e-chains [®] . Colour: Red lilac (similar to RAL 4001), Variants ▶ Product range table Printing: black	
	"00000 m"* igus chainflex CF888①② E310776 cяUus AWM	
	Style ③ VW-1 AWM I/II A/B 60°C ④V FT1 EAC/CTP CE⑤	,
	Style ③ VW-1 AWM I/II A/B 60°C ④V FT1 EAC/CTP CE⑤ RoHS-II conform www.igus.de +++ chainflex cable works +++	

Double strokes	1 million	3 million	5 million
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
+5/+15	17.5	18.5	19.5
+15/+60	15	16	17
+60/+70	17.5	18.5	19.5

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 3.1.1.1) ● For flexing applications ● PVC outer jacket ● Shielded ● Flame retardant

Properties and appr	ovals	
Flame retardant	According to IEC 60332-1-2, FT1, VW-1	Guarantee Igus chainflex
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)	poppo month guarantee aaaaaaaaaaaaaa
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"	igus 36-month chainflex cable guarantee and
UL/CSA AWM	See table UL/CSA AWM for details	service life calculator based on 2 billion test cycles per year
NFPA NFPA	Following NFPA 79-2018, chapter 12.9	K ata
	Certificate No. RU C-DE.ME77.B.00295/19 (TR ZU)	
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)	
RoHS Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)	CRUUS
	Following 2014/35/EU	

Properties and approvals

UL/CSA AWM Details

Part No.	UL style core insultation	UL style outer jacket	UL Voltage Rating V	UL Temperature Rating °C
CF888.001	1589	2560	30	60
CF888.021	10578	20601	300	80
CF888.045	11602	20601	300	80
CF888.060	11602	20601	300	80

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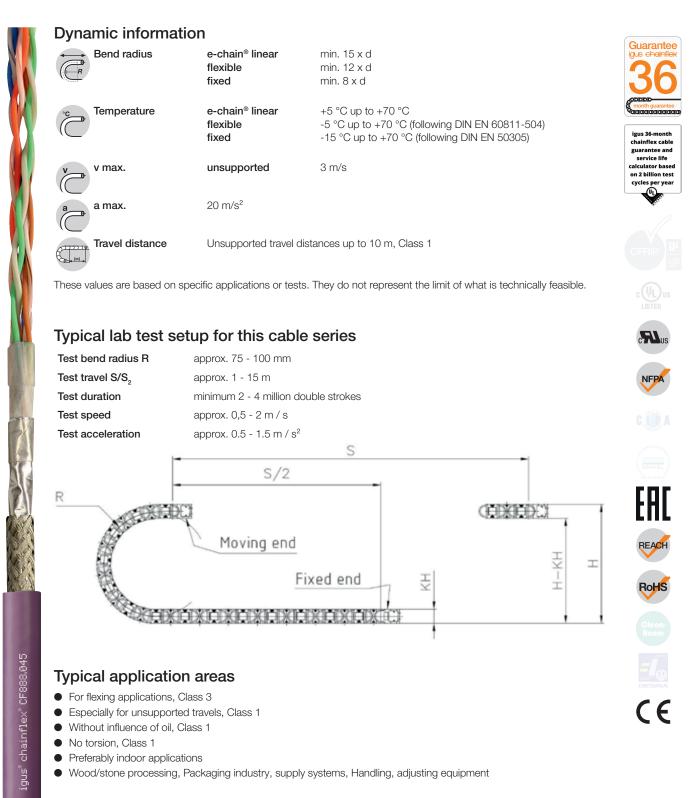
These values are based on specific applications or tests. They do not represent the limit of what is technically feasible.

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Bus cable (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket ● Shielded ● Flame retardant



Example image

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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)					Paaa
CF888.001	 • • • • • •	(2x0.25)C	8.0	18	59	igus chain
CAN-Bus						guara ser calcul
CF888.021		(2x0.5)C	8.5	24	73	on 2 b cycle
Ethernet/CAT5e						
CF888.045		(4x(2x0.14))C	7.0	25	62	
Profinet						
CF888.060 ^{2) 13)}	COBOU*	(4x0.34)C	7.0	25	59	

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.

igus chainflex CF888.045



Bus cable (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket ● Shielded ● Flame retardant



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Guarantee

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

FAUs

NFP

EAC

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RoHS

Bus cable (Class 3.1.1.1) • For flexing applications • PVC outer jacket • Shielded • Flame retardant



Profibus

CF888.001

Electrical information

(Cable structure please see previous page)

Part No.	CF888.001
Nominal voltage	50 V 30 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 (at 3-16 MHz)

Line attenuation approx. [dB/100m]

Part No.	9.6	38.4	4	16
	kHz	kHz	MHz	MHz
CF888.001	0.3	0.4	2.5	5.2

Conductor nominal	Maximum conductor resistance at 20 °C	Maximum current rating at 30 °C
cross section	(following DIN EN 50289-1-2)	(following DIN VDE 0298-4)
[mm ²]	[Ω/km]	[A]
0.25	88	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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Bus cable (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket ● Shielded ● Flame retardant





Bus cable (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket ● Shielded ● Flame retardant



Example image

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Bus cable (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket ● Shielded ● Flame retardant





Guarantee

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

FAUs

NFP

EAI

REACH

RoHS

CE

Bus cable (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket ● Shielded ● Flame retardant



Ethernet (CAT5/CAT5e/GigE/PoE)

CF888.045

Electrical information

(Cable structure please see previous page)

Part No.	CF888.045	
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 ± 25 Ω	
Operating capacity	47 pF/m	
Nominal Velocity of Propagation (NVP)	67 %	

Line attenuation approx. [dB/100m]

Part No.	1	4	10	16	20	31.25	62.5	100
	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz
CF888.045	3.2	6.0	9.5	12.1	13.6	17.1	14.8	32.0

Conductor nominal	Maximum conductor resistance at 20 °C	Maximum current rating at 30 °C	
cross section	(following DIN EN 50289-1-2)	(following DIN VDE 0298-4)	
[mm ²]	[Ω/km]	[A]	
0.14	145	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.



Bus cable (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket ● Shielded ● Flame retardant



Data sheet chainflex® CF888



Guarantee

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Bus cable (Class 3.1.1.1) • For flexing applications • PVC outer jacket • Shielded • Flame retardant



Profinet (Type C) CF888.060

Electrical information

(Cable structure please see previous page)

Part No.	CF888.060
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	53 pF/m
Nominal Velocity of Propagation (NVP)	67 %

Line attenuation approx. [dB/100m]

Part No.	1	4	10	16	20	31.25	62.5	100
	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz
CF888.060	3.2	6.0	9.5	12.1	13.6	17.1	14.8	32.0

Conductor nominal	Maximum conductor resistance at 20 °C	Maximum current rating at 30 °C
cross section	(following DIN EN 50289-1-2)	(following DIN VDE 0298-4)
[mm ²]	[Ω/km]	[A]
0.34	59	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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igus: CF888.001 CF888.045 CF888.060 CF888.021