



- For low duty flexing applications
- PVC outer jacket
- Shielded
- Flame-retardant

Now with 300 V **UL** approval

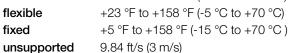
New

Dynamic Information

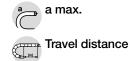
E-Chain® linear min. 15 x d flexible min. 12 x d min. 8 x d fixed



+41 °F to +158 °F (+5 °C to +70 °C) E-Chain® linear







Unsupported travel distances up to 32.8 ft (10 m), Class 1

Cable structure



Conductor consisting of bare copper wires (according to DIN EN 60228).

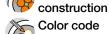


According to bus specification.

65.6 ft/s² (20 m/s²)



According to bus specification.



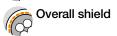
According to bus specification.

60 % optical coverage

Variants ► See P/N Table



► See P/N Table



aluminum/polyester tape and tinned cooper braid.



Low-adhesion mixture on the basis of PVC, adapted to suit the requirements

Outer jacket

in E-Chains®. Color: Violet (similar to RAL 4001)

Electrical Information



300 V, except CF888-001: 30 V Nominal voltage



Test voltage 500 V

Class 3.1.1.1

Properties and approvals

Flame resistance According to IEC 60332-1-2, FT1, VW-1

Travel distance Oil resistance

Torsion



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 300 V, +60 °C

See data sheet for details ▶ www.igus.com/CF888

NFPA 79 Complies to Electrical Standard for Industrial Machinery NFPA 79 Section 12.9

EAC 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)

(E CE Following 2014/35/EU

Guaranteed service life (details see page 26-27)

Cycles*	1 million	3 million	5 million
Temperature, from/to [°F]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
+41/+59	17.5	18.5	19.5
+59/+140	15	16	17
+140/+158	17.5	18.5	19.5
* Higher number of cycles? On	line lifetime calculation ▶ ww	w.chainflex.com/chainflexlife	

Typical application areas

- For low duty flexing applications, Class 3
- Especially for unsupported travels, Class 1
- Without influence of oil, Class 1
- Preferably indoor applications
- Wood/stone processing, Packaging industry, supply systems, Handling, adjusting equipment



























chainflex® CF888 bus cables in a handling application

PVC 15 x d



















Class 3.1.1.1

Bus cable | PVC | chainflex® CF888

igus chainflex CF888.045

Example image

Part No.	AWG	Number of Conductors and rated cross section	Outer diameter Copper index max.		Weight		Part No.	Character- istic Imped- ance	Core group Color code		
			[in.]	[mm]	lbs/mft	[kg/km]	lbs/mft	[kg/km]		$[\Omega]$	
Profibus (1x2x0.64 mm)											
CF888-001	24	1 PR x 0.25	0.31	8.0	12.1	18	39.6	59	CF888-001	150	2x0.25 red, green
CAN-Bus											
CF888-021	20	1 PR x 0.5	0.33	8.5	16.1	24	49.1	73	CF888-021	120	2x0.5 white, brown
Ethernet/CAT5e											
CF888-045	26	4 PR x 0.14	0.28	7.0	16.8	25	41.7	62	CF888-045	100	4x(2x0.14) white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Profinet											
CF888-060 ^{2) 13)}	22	2 PR x 0.34	0.28	7.0	16.8	25	39.6	59	CF888-060 ^{2) 13)}	100	4x0.34 white, orange, blue, yellow (Star-quad)

The chainflex® types marked with 2) are cables designed as a star-quad. $^{13)}$ Color outer jacket: Yellow-green (similar to RAL 6018) **Note:** The given outer diameters are maximum values.

G = with green-yellow earth core x = without earth core

PR = Twisted Pair

cost down...



Reduce cost, improve technology, now!

Do the chainflex® price check now ... www.igus.com/info/cable-price-check

... just one idea for you: Reduce bend radius with CFBUS ...

Technical note on bus cables

chainflex® bus cables have been specially developed and tested for continuously moving use in e-chains®. Depending on the material used for the outer jacket and on the underlying construction principle, the bus cables are designed for different mechanical requirements and resistance to different media.

The cables have been electrically designed in such a way that, on the one hand, the electrical requirements of the respective bus specification are reliably met and, on the other, there is a high degree of EMC reliability.

It is also ensured that the electrical values remain stable over the long term in spite of constant movement.

The overall quality of transmission in a complete bus communication system, however, is not solely dependent on the cable used. What is also essential is that all components (electronic parts, connecting system and cable) are precisely matched to each other and that the maximum transmission lengths, which are dependent on the respective system, are adhered to with regard to the data transmission rates needed. A cable is thus not solely responsible for the reliable transmission of signals.

igus® advises you when you are designing your bus system to take all these factors into account and, with its extensive tests, helps you to ensure the process reliability of your system from the very beginning.







