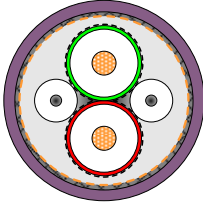
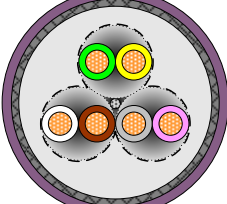
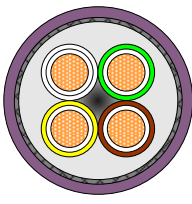
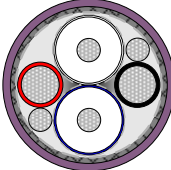
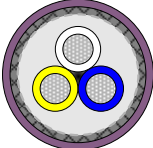
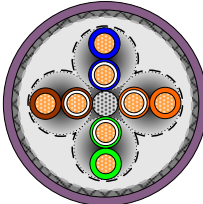
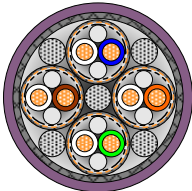
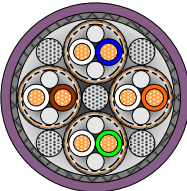
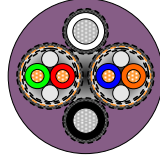
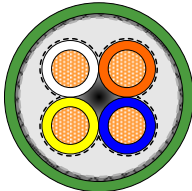
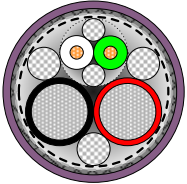
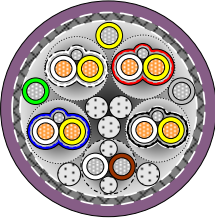


TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

Overview

Bus system	Profibus	Interbus	CAN-Bus / Fieldbus
Part. No.	CFBUS.001 → CFBUS.003	CFBUS.010 & CFBUS.011	CFBUS.020 → CFBUS.022
Example drawing	 (see the chapter belonging to the bus system for details)	 (see the chapter belonging to the bus system for details)	 (see the chapter belonging to the bus system for details)
Bus system	DeviceNet	CC-Link	Ethernet (CAT5 / CAT5e / GigE / PoE)
Part. No.	CFBUS.030 & CFBUS.031	CFBUS.035	CFBUS.040 → CFBUS.045
Example drawing	 (see the chapter belonging to the bus system for details)	 (see the chapter belonging to the bus system for details)	 (see the chapter belonging to the bus system for details)
Bus system	Ethernet (CAT6 _A / PoE)	Ethernet (CAT7 / PoE)	FireWire 400 (IEEE1394a)
Part. No.	CFBUS.050	CFBUS.052	CFBUS.055
Example drawing	 (see the chapter belonging to the bus system for details)	 (see the chapter belonging to the bus system for details)	 (see the chapter belonging to the bus system for details)
Bus system	Profinet (Type C)	USB 2.0	DVI
Part. No.	CFBUS.060	CFBUS.065 & CFBUS.066	CFBUS.070
Example drawing	 (see the chapter belonging to the bus system for details)	 (see the chapter belonging to the bus system for details)	 (see the chapter belonging to the bus system for details)



*not all articles



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TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

Core design:

Conductor: Fine-wire strand in especially bending-stable version consisting of bare or tinned copper wires (following DIN EN 60228).
Core insulation: According to bus specification.
Core identification: According to bus specification.

Shield design:

Material: Extremely bending-stable braid or wrapping (055) made of tinned copper wires.
Shield coverage: **Linear:** approx. 70 % **Optical:** approx. 90 %

Jacket design:

Inner jacket: TPE mixture adapted to suit the requirements in e-chains[®].
Outer jacket: Low-adhesion mixture on the basis of TPE, especially abrasion-stable and highly bending-stable, adapted to suit the requirements in e-chains[®].
 • oil-resistant (following DIN EN 60811-2-1)
 • biooil-resistant (following VDMA 24568 (tested by DEA with Plantocut 8 S-MB))
 • flame-retardant (according to IEC 60332-1-2, CEI 20-35, VW-1, FT-1) **(not CFBUS.070)**
 • hydrolysis-resistant (following DIN VDE 0282 Part 10 - A)
 • microbe-resistant (following DIN EN 50396)
 • silicon-free (following PV 3.10.7 - status 1992)
 • lead-free (following 2011/65/EU (RoHS-II))
 • clean room ISO class 1 (according to DIN ISO 14644-1 tested by IPA)
 • UV-resistance: Medium

Colour outer jacket: Red lilac (similar to RAL 4001) or Yellow green (similar to RAL 6018) **(only CFBUS.060)**

Cable marking (Black):
 „00000 m** igus chainflex CFBUS.----[®] -----[®] E310776 cigus AWM
 Style ----[®] VW-1 AWM I/II A/B 80°C ---V[®] FT-1 GL 61 937-14 HH
 EAC/ CTP CE ---[®] ---[®] conform RoHS-II conform www.igus.de
 +++ chainflex cable works +++

*** Length printing:** Not calibrated. Only intended as an orientation aid.

- ⊙ / ⊚: Cable identification according to part no. (see [technical table](#) for details).
Ex.: CFBUS.001: ⇒ ...igus chainflex CFBUS.001 (2x0,25)C E310776...
- ⊙ / ⊚: Printing of the UL-Style / -Voltage (see chapter belonging to the cable).
Ex.: CFBUS.001: ⇒ ...Style 21371 VW -1 AWM I/II A/B 90°C 30V FT-1...
- ⊙: Printing: DESINA (only if [DESINA-standard](#) fulfilled).
- ⊙: Printing according to bus specification (inclusive wave resistance).
Ex.: CFBUS.001: ⇒ ...CE 150 OHM Profibus conform...

General mechanical values: (for individual details see [technical table](#))

Guaranteed lifetime for this series according to the "chainflex [®] guarantee club" conditions (see chainflex [®] catalogue and www.igus.eu/chainflex-guarantee)				
Double strokes*		5 million	7,5 million	10 million
Temperature (from/to) [°C]	Travel distance (TD)	Min. bending radius for e-chain [®] use [Factor multiplied by outer diameter (d)] (Ex. CF11.02.03.02.IB-S at 20°C: 10,0 x 9,0 mm → Min. bending radius 90,0 mm)		
CFBUS.001 → CFBUS.045				
-35 / -25	≤ 400 m	12,5	13,5	14,5
-25 / +60		10,0	11,0	12,0
+60 / +70		12,5	13,5	14,5
CFBUS.050 → CFBUS.070				
-35 / -25	≤ 400 m	15,0	16,0	17,0
-25 / +60		12,5	13,5	14,5
+60 / +70		15,0	16,0	17,0

*: Minimum guarantee lifetime of the cable under the specified conditions.
 The installation of the cable is recommended within the middle temperature range.

Temperature range	-40 °C ←	-35 °C ←	-25 °C ↔ +60 °C	→ +70 °C
Min. bending radius for fixed installation	12,5x d	10,0 x d	7,5 x d	10,0 x d
Torsion (at 1 m cable length)	---	±0 °	±30 °	±0 °

Subject to misprints and errors. Technical modifications are possible at any time.
 Maybe older batches do not have all or other features.
 Please refer regarding the availability of the items especially the information in the latest chainflex[®] catalogue.

Date	Author
11 May 2016	C. Mittelstedt

TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

General electrical values:

(for individual details see [technical table](#) and chapter belonging to the cable)

Certifications:

GL type approval certificate: No. 61 937-14 HH (not CFBUS.070)

Guidelines:

CE, DESINA (not .060), NFPA (following 79-2012 chapter 12.9), EAC & TR (CTP)

Dynamic values:

Max. speed
for e-chain[®] use:**

Unsupported: $v = 10 \text{ m/s}$ **Gliding (up to 400 m):** $v = 6 \text{ m/s}$

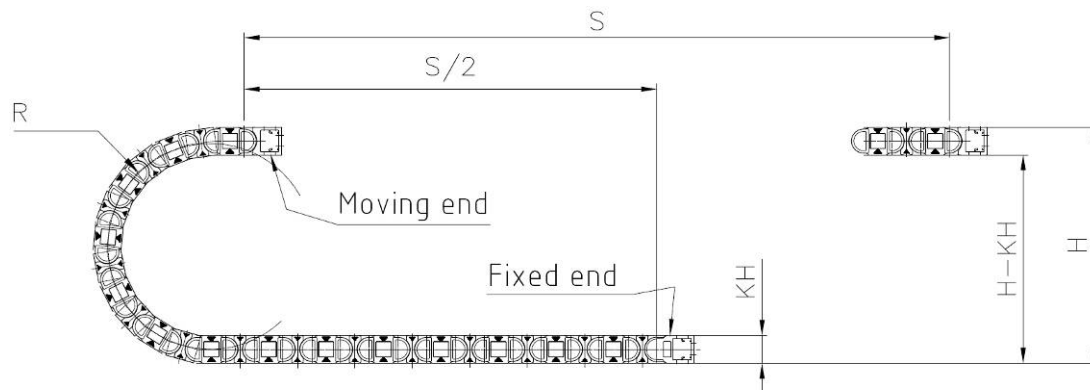
Max. acceleration
for e-chain[®] use:**

$a = 100 \text{ m/s}^2$

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

Typical lab test setup for this cable group:

Test bending radius R: approx. 60 - 125 mm
Test travel S: approx. 1 - 15 m
Test period: min. 2 - 4 million double strokes
Test speed: approx. 0,5 - 2 m / s
Test acceleration: approx. 0,5 - 1,5 m / s²



e-chain[®] - Bus cable for maximum load requirements:

- especially abrasion-stable
- almost unlimited resistance to oil, also with biooils
- for unsupported travel distances and up to 400 m in gliding applications
- CE, RoHS-II, DESINA (not .060), cRUus (not CFBUS.070), GL type approval certificate (not CFBUS.070), NFPA, EAC & TR (CTP)

Typical application areas:

Indoor and outdoor applications without direct sun radiation.
Storage and retrieval units for high-bay warehouses, machining units / machine tools, quick handling, clean room, semiconductor insertion, indoor cranes, low-temperature applications.



*not all articles

TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

Technical tables:

Mechanical values:

① Part no.	② Number of cores & nominal cross section [mm ²] ^{***}	External diameter (d) ^{****} [max. mm]	Copper index [kg / km]	Weight [kg / km]
Profibus				
CFBUS.001	(2x0,25)C	9,0	34	86
CFBUS.002	(2x0,25)C+4x1,5	12,5	99	203
CFBUS.003	(2x0,25)C+3x0,75	11,5	58	141
Interbus				
CFBUS.010	(3x(2x0,25))C	9,0	50	90
CFBUS.011	(3x(2x0,25)+(3x1,0))C	10,5	88	142
CAN-Bus / Fieldbus				
CFBUS.020	(4x0,25)C ^{*****}	6,5	29	58
CFBUS.021	(2x0,5)C	8,0	41	85
CFBUS.022	(4x0,5)C ^{*****}	8,0	46	90
DeviceNet				
CFBUS.030	((2xAWG24)C+2xAWG22)C	7,5	37	65
CFBUS.031	((2xAWG18)C+2xAWG15)C	11,5	110	200
CC-Link				
CFBUS.035	(3xAWG20)C	9,0	46	94
Ethernet (CAT5 / CAT5e / GigE / PoE)				
CFBUS.040	(4x0,25)C ^{*****}	7,0	35	66
CFBUS.041	(4x(2x0,25))C	10,0	52	113
CFBUS.044	(4x(2x0,15))C	8,5	44	88
CFBUS.045	(4x(2x0,15))C	8,5	44	88
Ethernet (CAT6a / PoE)				
CFBUS.050	(4x(2x0,15)C)C	10,5	87	139
Ethernet (CAT7 / PoE)				
CFBUS.052	(4x(2x0,15)C)C	10,5	87	139
FireWire				
CFBUS.055	2x(2x0,15)C+2x(0,34)C	8,0	41	84
Profinet				
CFBUS.060	(4x0,38)C ^{*****}	7,5	41	75
USB				
CFBUS.065	((2xAWG28)+2xAWG20)C	5,5	29	46
CFBUS.066	((2xAWG24)+2xAWG20)C	6,5	33	56
DVI				
CFBUS.070	(4x(2xAWG28)C+(2xAWG28)+3xAWG28)C	9,0	37	94

*** G ⇒ Cable contains a green/yellow core.

**** External diameters are maximum values and may tend toward lower tolerance limits.

***** Star quad design (see the chapter belonging to the cable for details).



*not all articles



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TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

Electrical values:

Nominal cross section [mm ²]	Conductor resistance [approx. Ω / km] at 20 °C	Max. current rating [A] at 30 °C*
(following)	DIN EN 50289-1-2	DIN VDE 0891-1
AWG28	205	1,0
0,15	133	2,5
0,25 (similar to AWG24)	79	5
0,34 (similar to AWG22)	58	7
0,38	51	7
0,5 (similar to AWG20)	44,1	10
0,75	28,6	14
1,0 (similar to AWG18)	22	17
1,5	14,6	21
AWG15	12,1	21

* The max. current rating depends on factors such as the individual environmental conditions and the type of installation.



*not all articles



+++ chainflex[®] cable works +++

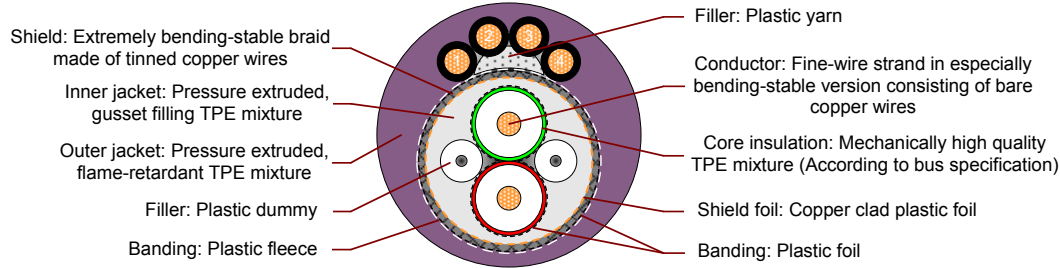
igus[®] chainflex[®] CFBUS



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TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

CFBUS.001 → CFBUS.003 (Profibus)



Electrical values:

Nominal voltage: 50 V

Test voltage: 500 V (Core / Core & Core / Shield)
⇒ (following DIN EN 50289-1-3)

Certifications: cFUs: (E310776: Style 1589 & 21371, 30 V / 80 °C)

Characteristic wave resistance: 150 ± 20 Ω ((at 3 MHz to 20 MHz) following DIN EN 50289-1-11)

Line attenuation {Signal pair} [approx. db / 100 m] (following DIN EN 50289-1-8)				
Frequency [MHz]	0,0096	0,0384	4	16
Part no.				
CFBUS.00X	3	5	26	55

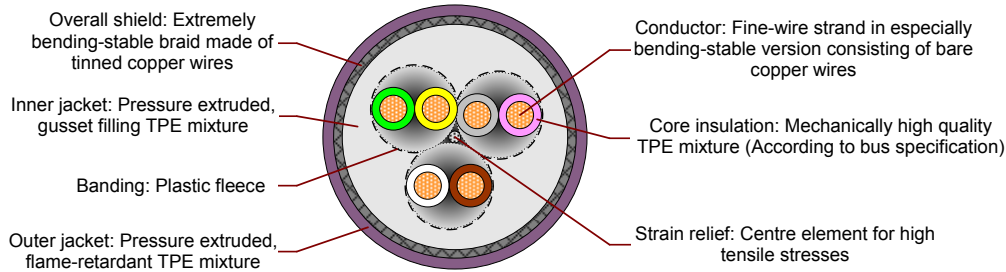
Construction table:

Part No.	Colour code		Cable construction
CFBUS.001	2x0,25	red, green	
CFBUS.002	(2x0,25)C	red/green	
	4x1,5	black cores with white numerals 1-4	
CFBUS.003	(2x0,25)C	red/green	
	3x0,75	black, blue, greenyellow	

(Back to [overview](#) or [technical table](#))

TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

CFBUS.010 & CFBUS.011 (Interbus)



Electrical values:

Nominal voltage:	50 V
Test voltage:	500 V (Core / Core & Core / Shield) ⇒ (following DIN EN 50289-1-3)
Certifications:	cFUs: (E310776: Style 1589 & 21371, 30 V / 80 °C)
Characteristic wave resistance:	100 ± 10 Ω ((at 3 MHz to 20 MHz) following DIN EN 50289-1-11)

Construction table:

Part No.	Colour code		Cable construction
CFBUS.010	3x(2x0,25)	white/brown, green/yellow, grey/pink	
CFBUS.011	3x(2x0,25)	white/brown, green/yellow, grey/pink	
	(3x1,0)	red, blue, greenyellow	

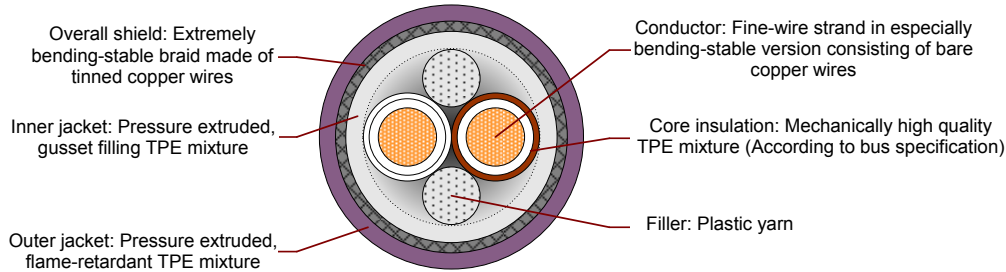
(Back to [overview](#) or [technical table](#))



*not all articles

TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

CFBUS.020 → CFBUS.022 (CAN-Bus / Fieldbus)



Electrical values:

Nominal voltage: 50 V

Test voltage: 500 V (Core / Core & Core / Shield)
⇒ (following DIN EN 50289-1-3)

Certifications: cFUs: (E310776: Style 1589 & 21371, 30 V / 80 °C)

Characteristic wave resistance: 120 ± 12 Ω ((at 3 MHz to 20 MHz) following DIN EN 50289-1-11)

Construction table:

Part No.	Colour code	Cable construction
CFBUS.020	4x0,25 white, green, brown, yellow (star-quad stranding, pairs: white/brown & green/yellow)	
CFBUS.021	2x0,5 white, brown	
CFBUS.022	4x0,5 white, green, brown, yellow (star-quad stranding, pairs: white/brown & green/yellow)	

(Back to [overview](#) or [technical table](#))

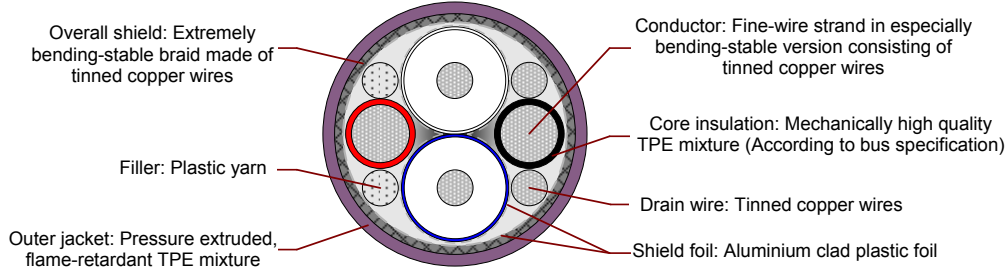


*not all articles



TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

CFBUS.030 & CFBUS.031 (DeviceNet)



Electrical values:

Nominal voltage:	50 V
Test voltage:	500 V (Core / Core & Core / Shield) ⇒ (following DIN EN 50289-1-3)
Certifications:	cFUs: (E310776: Style 1589 & 21371, 30 V / 80 °C)
Characteristic wave resistance:	120 ± 12 Ω ((at 3 MHz to 20 MHz) following DIN EN 50289-1-11)

Construction table:

Part No.	Colour code		Cable construction
CFBUS.030 (DROP/SPUR)	(2xAWG24)C	white/blue	
	2xAWG22	red, black	
CFBUS.031 (TRUNK)	(2xAWG18)C	white/blue	
	2xAWG15	red, black	

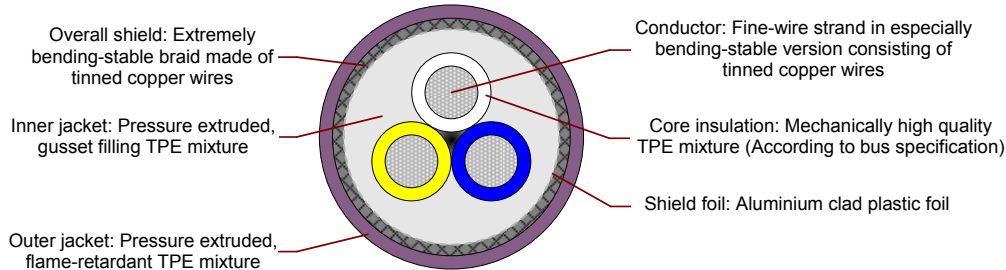
(Back to [overview](#) or [technical table](#))



*not all articles

TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

CFBUS.035 (CC-Link)



Electrical values:

Nominal voltage: 50 V

Test voltage: 500 V (Core / Core & Core / Shield)
⇒ (following DIN EN 50289-1-3)

Certifications: cFUs: (E310776: Style 1589 & 21371, 30 V / 80 °C)

Characteristic wave resistance: 110 ± 11 Ω ((at 3 MHz to 20 MHz) following DIN EN 50289-1-11)

Construction table:

Part No.	Colour code	Cable construction
CFBUS.035	3xAWG20 white, blue, yellow	

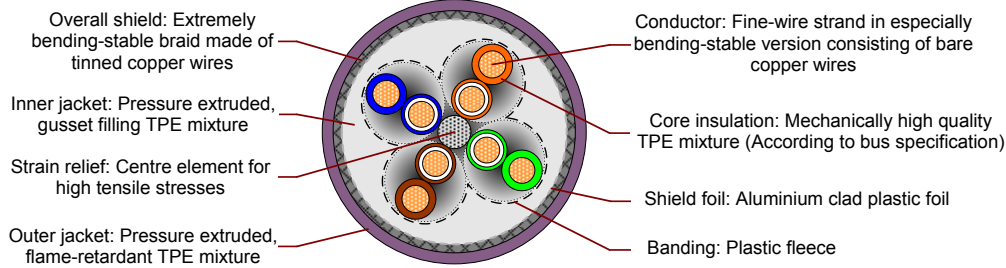
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*not all articles

TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

CFBUS.040 → CFBUS.045 (Ethernet (CAT5 [040]) (CAT5e / GigE / PoE [041, 044 & 045]))



Electrical values:

Nominal voltage:	50 V
Test voltage:	1,5 kV (Core / Core) & 1,0 kV (Core / Shield) ⇒ (following DIN EN 50289-1-3)
Certifications:	cFUs: (E310776: Style 10138 & 21235, 300 V / 80 °C)
Characteristic wave resistance:	100 ± 10 Ω ((at 1 MHz to 100 MHz) following DIN EN 50289-1-11)

Line attenuation [approx. db / 100 m] (following DIN EN 50289-1-8)								
Frequency [MHz]	1	4	10	16	20	31,25	62,5	100
Part no. CFBUS.040	3,2	6,5	9,9	12,3	13,8	17,7	25,7	33,0
CFBUS.041	3,2	6,5	9,9	12,3	13,8	17,7	25,7	33,0
CFBUS.044	4,2	8,6	13,7	17,2	19,2	23,7	32,7	40,5
CFBUS.045	4,2	8,6	13,7	17,2	19,2	23,7	32,7	40,5

Maximum link length [◇] [m]	
Class D (Cat 5e → 100 MHz)	≤ 60

◇: The specified max. link length is based on a direct connection (with two RJ45 connectors each with 0,8 db). Other configurations can affect the max. link length.

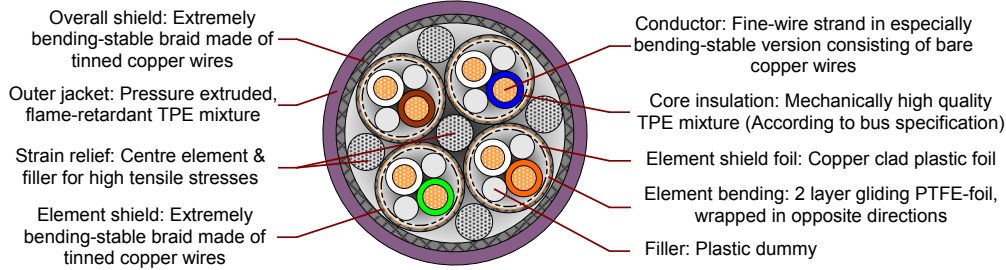
Construction table:

Part No.	Colour code	Cable construction
CFBUS.040	4x0,25 white, green, brown, yellow (star-quad stranding, pairs: white/brown & green/yellow)	
CFBUS.041	4x(2x0,25) white/brown, green/yellow, grey/pink, blue/red	
CFBUS.044	4x(2x0,15) white/brown, green/yellow, grey/pink, blue/red	
CFBUS.045	4x(2x0,15) whiteblue/blue, whiteorange/orange, whitegreen/green, whitebrown/brown (According to EIA/TIA 568)	

(Back to [overview](#) or [technical table](#))

TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

CFBUS.050 (Ethernet (CAT6_A / PoE))



Electrical values:

Nominal voltage: 50 V

Test voltage: 1,5 kV (Core / Core) & 1,0 kV (Core / Shield)
⇒ (following DIN EN 50289-1-3)

Certifications: cFUs: (E310776: Style 10138 & 21235, 300 V / 80 °C)

Characteristic wave resistance: 100 ± 15 Ω ((at 1 MHz to 500 MHz) following DIN EN 50289-1-11)

Frequency [MHz]	1	4	10	16	20	31,25	62,5	100	150	200	250	350	500
Part no.													
Characteristic wave resistance Z_U [Ω] (following IEC 61156-6, part 6.3.10)													
CFBUS.050	82	87	89	89	89	87	83	80	77	74	72	68	64
Characteristic wave resistance Z_O [Ω] (following IEC 61156-6, part 6.3.10)													
CFBUS.050	122	115	112	112	112	115	120	125	131	136	140	148	158
Line attenuation [approx. db / 100 m] (following DIN EN 50289-1-8)													
CFBUS.050	2,5	5,0	8,1	10,5	11,7	14,7	21,4	27,6	34,3	40,0	44,9	56	75

Maximum link length [◇] [m]	
Class E _A (Cat 6 _A → 500 MHz)	≤ 45

◇: The specified max. link length is based on a direct connection (with two RJ45 connectors each with 0.8 db). Other configurations can affect the max. link length.

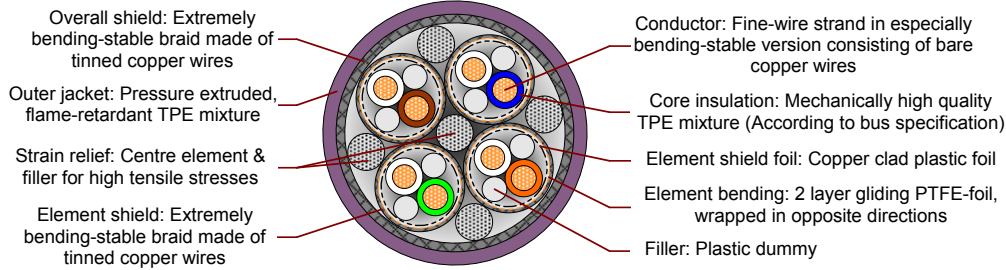
Construction table:

Part No.	Colour code	Cable construction
CFBUS.050	white/blue, white/orange, white/green, white/brown	

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TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

CFBUS.052 (Ethernet (CAT7 / PoE))



Electrical values:

Nominal voltage: 50 V

Test voltage: 1,5 kV (Core / Core) & 1,0 kV (Core / Shield)
⇒ (following DIN EN 50289-1-3)

Certifications: cFUs: (E310776: Style 10138 & 21235, 300 V / 80 °C)

Frequency [MHz]	1	4	10	16	20	31,25	62,5	100	200	300	400	500	600
Part no.													
Characteristic wave resistance Z_U [Ω] (following IEC 61156-6, part 6.3.10)													
CFBUS.052	82	87	89	89	89	87	83	80	74	70	66	64	61
Characteristic wave resistance Z_O [Ω] (following IEC 61156-6, part 6.3.10)													
CFBUS.052	122	115	112	112	112	115	120	125	136	144	151	158	164
Line attenuation [approx. db / 100 m] (following DIN EN 50289-1-8)													
CFBUS.052	3,0	5,6	8,8	11,1	12,4	15,7	22,3	28,5	41,2	51,3	60,0	67,9	75,2

Maximum link length [◇] [m]	
Class F (Cat 7 → 500 MHz)	≤ 45

◇: The specified max. link length is based on a direct connection (with two RJ45 connectors each with 0.8 db). Other configurations can affect the max. link length.

Construction table:

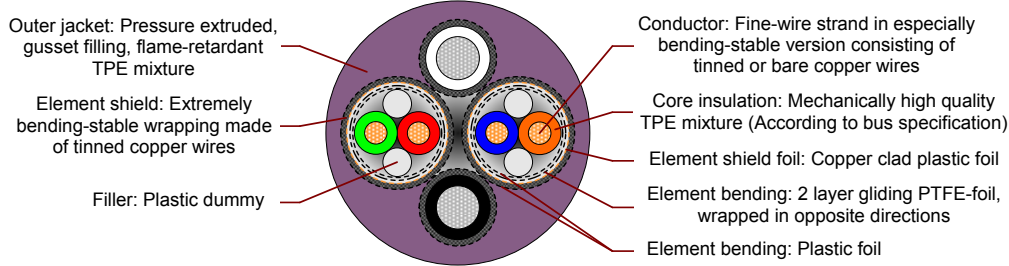
Part No.	Colour code	Cable construction
CFBUS.052	white/blue, white/orange, white/green, white/brown	

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TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

CFBUS.055 (FireWire 400 (IEEE1394a))



Electrical values:

Nominal voltage: 50 V

Test voltage: 500 V (Core / Core & Core / Shield)
⇒ (following DIN EN 50289-1-3)

Certifications: cFUs: (E310776: Style 1589 & 21371, 30 V / 80 °C)

Characteristic wave resistance: 100 ± 15 Ω ((at 1 MHz to 250 MHz) following DIN EN 50289-1-11)

Line attenuation [approx. db / 100 m] (following DIN EN 50289-1-8)											
Frequency [MHz]	1	4	10	16	20	31,25	62,5	100	155	200	250
Part no.											
CFBUS.055	3,4	6,4	9,9	12,5	14,1	17,7	25,5	32,9	41,8	48,1	54,5

Construction table:

Part No.	Colour code	Cable construction
CFBUS.055	2x(2x0,15)C	orange/blue, green/red
	2x(0,34)C	white, black

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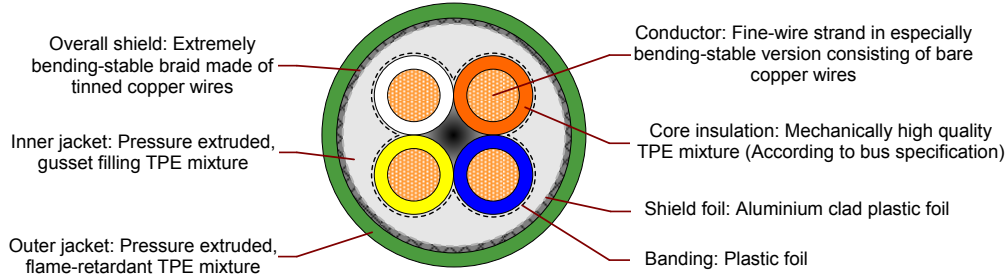


*not all articles



TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

CFBUS.060 (Profinet (Type C))



Electrical values:

Nominal voltage: 50 V
Test voltage: 1,5 kV (Core / Core) & 1,0 kV (Core / Shield)
 ⇒ (following DIN EN 50289-1-3)
Certifications: cFUs: (E310776: Style 10138 & 21235, 300 V / 80 °C)
Characteristic wave resistance: 100 ± 10 Ω ((at 1 MHz to 100 MHz) following DIN EN 50289-1-11)

Line attenuation [approx. db / 100 m] (following DIN EN 50289-1-8)									
Part no.	Frequency [MHz]	1	4	10	16	20	31,25	62,5	100
CFBUS.PUR.060		2,4	4,8	7,6	9,6	10,7	13,4	19,0	24,0

Maximum link length [◇] [m]	
Class D (Cat 5e → 100 MHz)	≤ 90

◇: The specified max. link length is based on a direct connection (with two RJ45 connectors each with 0.8 db). Other configurations can affect the max. link length.

Construction table:

Part No.	Colour code	Cable construction
CFBUS.060	4x0,38 white, orange, blue, yellow (star-quad stranding, pairs: white/blue & orange/yellow)	

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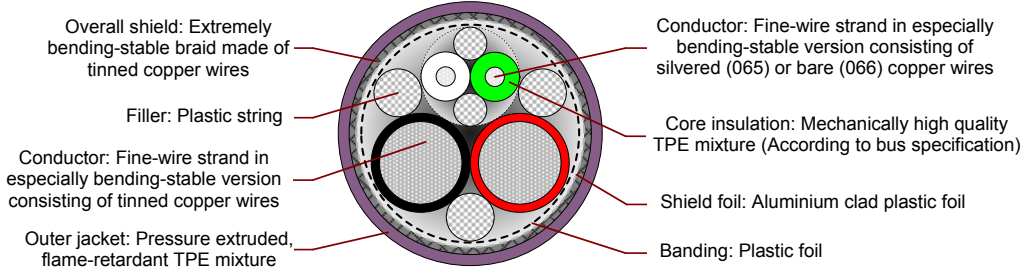


*not all articles



TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

CFBUS.065 & CFBUS.066 (USB 2.0)



Electrical values:

Nominal voltage:	50 V
Test voltage:	500 V (Core / Core) & 500 V (Core / Shield) ⇒ (following DIN EN 50289-1-3)
Certifications:	cFUs: (E310776: Style 1589 & 21371, 30 V / 80 °C)
Characteristic wave resistance:	95 ± 10 Ω ((at 1 MHz to 400 MHz) following DIN EN 50289-1-11)

Line attenuation {Signal pair} [approx. db / 100 m] (following DIN EN 50289-1-8)									
Part no. \ Frequency [MHz]	1	4	8	12	24	48	96	200	400
CFBUS.065 / .066	5	9	12,5	14,5	22	32	50	75	116

Construction table:

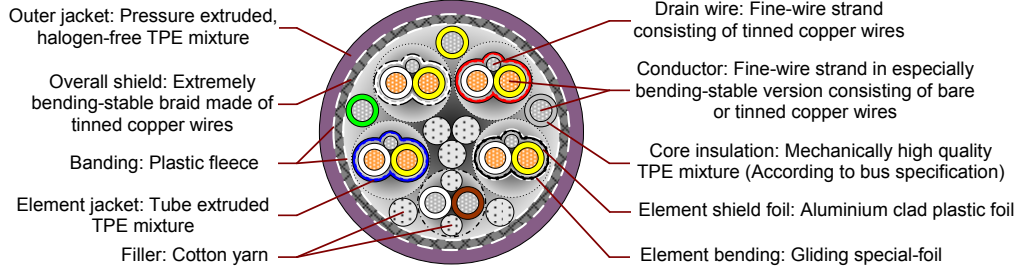
Part No.	Colour code	Cable construction
CFBUS.065	(2xAWG28) white/green	
	2xAWG20 red, black	
CFBUS.066	(2xAWG24) white/green	
	2xAWG20 red, black	

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TPE - e-chain[®] - Bus cable for maximum load requirements (class 6.6.4): shielded, oil- and biooil-resistant, flame-retardant (not CFBUS.070) as well as hydrolysis- and microbe-resistant.

CFBUS.070 (DVI)



Electrical values:

Nominal voltage:	50 V
Test voltage:	1,0 kV (Core / Core) & 300 V (Core / Shield) ⇒ (following DIN EN 50289-1-3)
Operating capacity:	approx. 40 pF / m ((at 1 kHz) following DIN EN 50289-1-5)
Characteristic wave resistance:	100 ± 10 Ω ((at 100 MHz) following DIN EN 50289-1-11)

Construction table:

Part No.	Colour code		Cable construction
CFBUS.070	4x(2xAWG28)C	C: white/yellow EJ: blue, white, red, black	
	C: Cores / EJ: Element jackets		
	(2xAWG28)	white/brown	
	3xAWG28	green, yellow, grey	

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*not all articles



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Subject to misprints and errors. Technical modifications are possible at any time. Maybe older batches do not have all or other features.

Please refer regarding the availability of the items especially the information in the latest chainflex[®] catalogue.

