



TPE Bus Cables

Chainflex® CFBUS

TPE Energy Chain® cable, shielded, flame retardant, oil-resistant, bio-oil-resistant, hydrolysis resistant and microbe resistant

Conductor
Fine wire stranded
conductor

Core
Pair(s) twisted
together with
short pitch

Inner jacket
gusset filled,
pressure
extruded

Overall shield
Highly flexible
braided copper
shield

Outer jacket
Pressure extruded,
flame retardant
TPE blend

Construction

Conductors: Finely stranded bare copper conductors with extreme flexibility

Conductor insulation: According to Bus specifications

Conductor twisting: Twisted pairs are cabled together with a short pitch.

Conductor colors: Please refer to Color Code Chart in the Design Section

Shield: Tinned copper braid, 90% optical coverage

Outer jacket: TPE blend, abrasion resistant, adapted to the requirements in Energy Chains®. Color Purple (RAL 4001)

Technical Data

Minimum bending radius, moving: 10 - 12.5 x outer cable diameter

Minimum bending radius, fixed: 5 x outer cable diameter

Permissible temperature, moving: -31°F to +158°F (-35°C to +70°C)

Permissible temperature, fixed: -40°F to +158°F (-40°C to +70°C)

UV resistance: Medium

Oil resistance: High

Nominal voltage: 30V

Test voltage: 500V

Regulations: cRUus: UL AWM style for US & Canada: 21371 80°C 30V

Flame resistance: According to IEC 60332-1-2, CEI 20-35, FT1, VW-1

NFPA 79: Complies to NFPA 79 2012 chapter 12.9

CE: 2006/95/EG CEI: 20-35

RoHS: Complies to **2011/65/EU (RoHS-II)**

Cleanroom: According to ISO Class 1, material/cable tested by IPA according to ISO standard 14644-1. Test cable CF34-25-04

Typical Applications

- for maximum mechanical load requirements
- indoor and outdoor applications, UV-resistant
- especially for unsupported and gliding travel up to 1312 ft (400m)
- storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, cleanroom, semi-conductor insertion, ship to shore, outdoor cranes, low temperature applications



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CFBUS

CLASS
6.4.4

Price Index



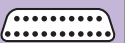
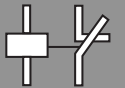
Part No.	AWG	No. of Conductors and Rated Cross- Section in mm ²	Outer Diameter (approx)		Copper Index		Weight		Characteristic Impedance ohms
			in.	(mm)	lbs/mft	(kg/km)	lbs/mft	(kg/km)	
Profibus (Bending radius 10 x D)									
CFBUS-001	24	1 PR x 0.25	.33	(8.5)	15.6	(23)	47.6	(70)	150
CFBUS-002	16	4 C x 1.5							
	24	1 PR x 0.25	.49	(12.5)	65.3	(96)	119.0	(175)	150
CFBUS-003	18	3 C x 0.75							
	24	1 PR x 0.25	.43	(11)	39.4	(58)	82.3	(121)	150
Interbus (Bending radius 10 x D)									
CFBUS-010	24	3 PR x 0.25	.33	(8.5)	28.6	(42)	56.4	(83)	100
CFBUS-011	24	3 PR x 0.25							
	17	3 C x 1.0	.39	(10)	50.3	(74)	91.8	(135)	100
CAN-BUS/Fieldbus (Bending radius 10 x D)									
CFBUS-020	24	2 PR x 0.25	.26	(6.5)	22.4	(33)	44.9	(66)	120
CFBUS-021	20	1 PR x 0.5	.33	(8.5)	24.5	(36)	52.4	(77)	120
CFBUS-022	20	2 PR x 0.5	.33	(8.5)	30.6	(45)	56.4	(83)	120
Devicenet (Bending radius 10 x D)									
CFBUS-030	24	1 PR 24 AWG							
	22	1 PR 22 AWG	.30	(7.5)	22.4	(33)	43.6	(65)	120
CFBUS-031	18	1 PR 18 AWG							
	15	1 PR 15 AWG	.45	(11.5)	65.3	(96)	74.8	(110)	120
CCLink (Bending radius 10 x D)									
CFBUS-035	20	3 C x 20 AWG	.34	(8.5)	30.0	(44)	132.3	(90)	110
Ethernet/CAT5 (Bending radius 12.5 x D)									
CFBUS-040	24	2 PR x 0.25	.28	(7.0)	22.4	(33)	29.2	(43)	100
CFBUS-041	24	4 PR x 0.25	.39	(10)	31.3	(46)	68.7	(101)	100
CFBUS-044	26	4 PR x 0.15	.32	(8.0)	24.0	(35)	53.7	(79)	100
CFBUS-045	26	4 PR x 0.15	.32	(8.0)	24.0	(35)	53.7	(79)	100
Ethernet/CAT6 (Bending radius 12.5 x D)									
CFBUS-050	26	4 STP x 0.14	.39	(10)	52.4	(77)	89.1	(131)	100
Firewire (Bending radius 12.5 x D)									
CFBUS-055	26	2 STP x 0.15							
	22	2 C x 0.34	.30	(7.5)	28.6	(42)	54.4	(81)	100
Profinet (Bending radius 12.5 x D)									
CFBUS-060	21	4 C x 0.38	.30	(7.5)	25.0	(37)	48.3	(71)	100
USB (Bending radius 12.5 x D)									
CFBUS-065	20	2 C x 0.5							
	28	1 PR x 0.08	.20	(5.0)	17.5	(26)	30.2	(45)	90
CFBUS-066	20	2 C x 0.5							
	24	1 PR x 0.24	.24	(6.0)	21.5	(32)	37.6	(56)	90
DVI									
CFBUS-070	28	4 PR x 0.08							
	28	2 C x 0.08							
	28	3 C x 0.08	.35	(9.0)	22.4	(33)	61.8	(92)	100

STP = Individually shielded Pair
PR = Twisted Pair
C = Single Conductor

SC = Individually shielded conductor
SHLD = Shielded over Precable

NOTE: The mentioned external diameters are maximum values.

Internet: www.igus.com
email: sales@igus.com
RFQ: www.chainflex.com/rfq



No Minimum Order • No Cut Charges on up to 10 cuts of the same part number