

TPE Power Cable

Chainflex® CFPE

TPE Energy Chain® cable, oil-resistant, bio-oil-resistant, UV-resistant, flame retardant

igus®

CFPE

Price Index



CLASS
6.4.4

Construction

Conductors: Finely stranded bare copper wires, according to EN60882

Conductor insulation: Mechanically high quality TPE blend **Color:** green/yellow

Overall jacket: TPE Especially abrasion resistant, highly flexible mixture, oil resistant coolant resistant and UV redistant Silicone-free in compliance with PV 3.10.7 - status 1992. Color: Black

Technical Data

Minimum bending radius, moving: 7.5 x outer cable diameter

Minimum bending radius, fixed: 4 x outer cable diameter

Permissible temperature, moving: -31°F to +194°F (-35°C to +90°C)

Permissible temperature, fixed: -40°F to +194°F (-40°C to +90°C)

Voltage: 1000V

Testing voltage: 4000V

Oil resistance: High

UV resistance: High

Regulations: cRUus: UL AWM style for USA & Canada: 21218 80°C 1000V **Flame resistance:** 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 standard 14644-1.

Test cable CF34-25-04

Typical Applications

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

Part No.	AWG	No. of Conductors and Rated Cross- Section in mm²	Outer Diameter		Copper Index		Weight	
			in.	(mm)	lbs/mft	(kg/km)	lbs/mft	(kg/km)
CFPE-15-01	16	1 x 1.5	.20	(5.0)	10.2	(15)	24.0	(35)
CFPE-25-01	14	1 x 2.5	.22	(5.5)	17.0	(25)	31.0	(46)
CFPE-40-01	12	1 x 4.0	.24	(6.0)	25.5	(38)	41.0	(61)
CFPE-60-01	10	1 x 6.0	.30	(7.5)	37.6	(56)	54.4	(81)
CFPE-100-01	8	1 x 10.0	.32	(8.0)	64.5	(96)	83.0	(123)
CFPE-160-01	6	1 x 16.0	.37	(9.5)	101.5	(151)	128.3	(191)
CFPE-250-01	4	1 x 25.0	.45	(11.5)	161.0	(239)	195.5	(291)
CFPE-350-01	2	1 x 35.0	.51	(13.0)	227	(333)	263	(387)

Conductor
Highly flexible
special
conductor

**Conductor
insulation**
Pressure
extruded TPE
blend

Outer jacket
Pressure
extruded,
flame-retardant
TPE blend



7.5x



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