

CF14US



PUR Ethernet Cables

CLASS
6.3.4

Price Index



Chainflex® CF14US

PUR Energy Chain® cable, shielded, oil-resistant, UV-resistant, flame retardant, abrasion and tear resistant, hydrolysis resistant and microbe resistant

Conductor

Fine wire stranded conductor

Core

Pairs twisted together with short pitch

Inner jacket

gusset filled, pressure extruded

Overall shield

Highly flexible braided copper shield

Outer jacket

Pressure extruded, halogen-free PUR blend



Construction

Conductors: 26 AWG finely stranded tinned copper wires

Conductor insulation: Foam polyethylene

Conductor twisting: 4 pairs twisted together

Conductor colors: Blue & white/blue, orange & white/orange, green & white/green, brown & white/brown

Inner jacket: TPE

Shield: Tinned copper braid, 80% optical coverage

Outer jacket: Low adhesion PUR blend adapted to the requirements of the Energy Chain®

Color: Violet

Technical Data

Minimum bending radius, moving: 12.5 x outer cable diameter

Minimum bending radius, fixed: 7.5 x outer cable diameter

Permissible temperature, moving: -4°F to +176°F (-20°C to +80°C)

Permissible temperature, fixed: -40°F to +176°F (-40°C to +80°C)

UV resistance: Medium

Oil resistance: High

Voltage: 300V

Test voltage: 2500V

Insertion Loss: meets EIA/TIA 568-B.2 for CAT5e stranded conductors

Characteristic Impedance: 100Ω

Capacitance (Conductor to Conductor): 19pF/ft

Regulations: **UL AWM:** 80°C 300V, **CSA AWM:** I/II A/B 80°C 300V, **Flame resistance:** FT1, **CE:** In accordance with European Council Directive 73/23/EEC, **RoHS:** 2002/95/EC; Please reference the Design Section (Chapter 1) for more information.

Typical Applications

- for maximum mechanical load requirements
- indoor and outdoor applications without direct sunlight
- especially for unsupported and gliding travel up to 164 ft (50m)
- For application lengths > 164 ft (50m) us igus® P/N CFBUS-044 or CF14-02-04-02-CAT5
- storage and retrieval units for high-bay warehouses, machine tools, quick handling, cleanroom, semiconductor insertion, indoor cranes, low temperature applications



12.5x



Part No.	AWG	Strand/ AWG	No. of Pairs x Cross Section (mm ²)	Outer Diameter (approx)		Copper Index		Weight	
				in.	(mm)	lbs/mft	(kg/km)	lbs/mft	(kg/km)
CF14US-02-04-02	26	19/38	4 PR x .14	.30	(7.6)	7.4	(11)	60	(89)



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