

TPE Video Coax Cables



Chainflex® CFKoax1

TPE Energy Chain® cable, 75 □ Koax cable, oil-resistant, bio-oil-resistant, UV-resistant

Conductor

Specially bend-resistant fine wire stranded conductor

Conductor shield

Highly flexible braided copper shield

Core

Coaxes twisted with short pitch

Outer jacket

gusset filled, pressure extruded, halogen-free TPE blend

Construction

Conductors: Tinned copper wires with short pitch

Conductor insulation: FEP

Coax shield: Tinned copper braid, coverage 90% optical

Coax jacket/color: TPE, red, green, blue, white, black

Cable core for 5 coax cable: coax 5 combined with short pitch

Outer jacket: TPE abrasion-resistant, high-flex blend, oil-resistant, coolant-resistant. **Color:** dark blue (RAL 5011).

Technical Data

Minimum bending radius, moving: 10 outer cable diameter

Minimum bending radius, fixed: 7.5 x outer cable diameter

Permissible temperature, moving: -31°F to +212°F (-35°C to +100°C)

Permissible temperature, fixed: -40°F to +212°F (-40°C to +100°C)

UV resistance: High

Oil resistance: High

Nominal voltage: 300V

Test voltage: 1500V

Operating capacitance: approx. 19.5pF/ft

Characteristic impedance: 75 □

Typical Applications

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

Part No.	AWG	Strand/ AWG	No. of Coax and color code
CF Koax 1-01	30	7/38	1 black
CF Koax 1-05	30	7/38	5 red, green, blue, white, black

Part No.	Outer Diameter (approx)		Copper Index		Weight	
	in.	(mm)	lbs/mft	(kg/km)	lbs/mft	(kg/km)
CF Koax 1-01	.18	(4.5)	6.1	(9)	17.0	(25)
CF Koax 1-05	.39	(10)	32.0	(47)	91.8	(135)

NOTE: The mentioned external diameters are maximum values.