

# 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/<br>AWG | No. of Coax<br>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<br>(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.