

ÖLFLEX® CHAIN TM & TM CY

UDB8718030EN
Date: August 1, 2026

1. APPLICATION

ÖLFLEX® CHAIN TM & TM CY is a highly flexible multi conductor tray cable designed for continuous flex applications. The shielded version has an overall tinned copper braid that provides protection against EMI and RFI. Fine stranding, specially formulated thermoplastic polymer jacket optimizes flex life and provides excellent resistance to mineral oils, synthetic oils, and water based coolants.

Applications:

Gantry robots pick and place units, conveyor systems, machine tool and other continuous flexing applications.

Underwriters Laboratories

For Tray use in exposed run applications, Wind Turbines , Machine Tools, Appliance Wiring Material and internal or external wiring of electrical and electronic equipment.

Canadian Standards

For Tray use, Power, Control Instrumentation, Appliance Wiring Material and internal or external wiring of electrical and electronic equipment applications.

2. CABLE DESCRIPTION

- Bare copper super fine wire stranding
- Specially blended PVC / Nylon insulation
- Black color coded conductors with white identification
- Green/Yellow ground wire
- Overall TC Braid Shield
- Black UV, oil and flame resistant specially formulated thermoplastic polymer jacket

3. TECHNICAL DATA

Conductor Stranding	18 AWG (0,75 mm ²) to 10 AWG (6,0 mm ²): Class 6 (IEC 60228; VDE 0295) 18 AWG meets only class 6 cross section and DC conductor resistance	
Design / Make-up	Cable is designed in accordance with the requirements of UL Standard 1277 and with CSA standards C22.2 No. 230 & No. 239	
Insulation	Specially blended PVC / Nylon insulation;	
Color Code	Black conductors with white numbers plus green/yellow (30% stripe width)	
Shield	Tinned copper Braid Shield (85% coverage) (ÖLFLEX CHAIN TM CY only)	
Outer Sheath	Specially formulated thermoplastic polymer jacket	
Nominal Voltage	UL / CSA TC:	600V
	UL / CSA AWM:	1000V
	VDE U ₀ /U:	600/1000V
Test Voltage	2000V	
Min Bend radius	For stationary use:	5 x OD
	For stationary use:	6 x OD (Shielded)
	For continuous flexing:	7.5 x OD
	For continuous flexing:	10 x OD (Shielded)

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Temperature Range	UL/CSA TC: -25°C to +90°C For stationary use: -40°C to +105°C For continuous flexing: -25°C to +90°C
Cable Attributes	OR-03, FR-03, CF-02, MP-03 Sunlight resistant, Direct Burial
Approvals	UL MTW (Machine-Tool Wire) per UL 1063 UL THHN/THWN per UL 83 (14 AWG & larger) UL AWM 20886 (Appliance Wiring Material) per UL 758 UL Type TC (Tray Cable) - ER* (Exposed Run) per UL 1277 DP-1 (Data Processing Cable) per UL 1690 UL PLTC (Power Limited Tray Cable) –ER* (Exposed Run) per UL 13 (18 AWG - 12 AWG) UL ITC (Instrumentation Tray Cable) –ER* (Exposed Run) per UL 2250 (18 AWG - 12 AWG) UL WTTC (Wind Turbine Tray Cable) per UL 2277 c(UL) T90 Nylon/TWN75 – TC-ER FT4 per CSA C22.2 No. 75 / CSA C22.2 No. 230 (14 AWG & larger) c(UL) CIC/TC-ER FT4 per CSA C22.2 No. 239 / CSA C22.2 No. 230 (18 AWG – 16AWG) CSA AWM I/II A/B FT4 per CSA C22.2 No. 210 * For –ER: Minimum 3 conductors required
Additional	NEC Article 336, Article 501 Class 1 Division 2 CEC Section 12, Section 18 NFPA 79 VDE 250-1 (meets rated voltage requirements only) LVD 2014/35/EU (Low Voltage Directive) RoHS directive UKCA