

ÖLFLEX® CONTROL TM & ÖLFLEX® CONTROL TM CY

UDB281803EN
Date: September 25, 2025

1. APPLICATION

ÖLFLEX® CONTROL TM & CONTROL TM CY are an industrial grade tray cable with superior oil performance for long cable life. It has a pressure extruded jacket and fine copper stranding for excellent flexibility making it easier to pull through Tray. The shielded version with overall foil tape and tinned copper braid provides protection against EMI and RFI. UL TC-ER approval requires no conduit this provides savings on material costs and labor.

Applications:

Plant and Factory expansions, automotive plants, tray installations, can substitute for anywhere that industrial tray cables are used. Not intended for cleanroom applications.

Underwriters Laboratories

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

Canadian Standards

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

2. CABLE DESCRIPTION

- Bare copper fine wire
- PVC/Nylon insulation
- Black color coded conductors with white identification
- Green/Yellow ground wire
- Overall Foil and TC Braid Shield
- Gray (RAL 7001) UV, oil and flame resistant specially formulated thermoplastic polymer jacket

3. TECHNICAL DATA

Conductor Stranding	18 AWG (1,0 mm²) to 6 AWG (16,0 mm²): Class 5 (IEC 60228; VDE 0295) 18 AWG meets only class 5 cross section and DC conductor resistance 4 AWG (21,0 mm²) to 2 AWG (33,7 mm²): Class K		
Design / Make-up	Cable is designed in accordance with the requirements of UL Standard1277 and with CSA standards C22.2 No. 230 & No. 239		
Insulation	Specially formulated PVC insulation with Nylon		
Color Code	Black conductors with white numbers plus green/yellow (30% stripe width) 2 conductor cable: No green/yellow ground		
Shield	Aluminum/Polyester Foil and Tinned Copper Braid Shield (85% coverage) (ÖLFLEX CONTROL TM CY only)		
Outer Sheath	Specially formulated thermoplastic polymer jacket		
Nominal Voltage	UL / CSA TC:	600V	
	UL WTTC:	1000V	
	VDE U ₀ /U:	600/1000V	
Test Voltage	2000V		

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Min Bend radius	For installation: Shielded:	2 AWG & smaller: 6 AWG & smaller:	4 x OD 6 x OD
Temperature Range	UL/CSA TC: For stationary use: For flexible use:	-25°C to +90°C -40°C to +105°C -25°C to +105°C	
Cable Attributes	OR-03, FR-03, WT-02, MP-03 Sunlight resistant, Direct Burial		
Approvals	UL MTW (Machine-Tool Wire) per UL 1063 UL AWM 20886 (Appliance Wiring Material) per UL 758 (Excludes 1 AWG to 500 MCM sizes) 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 UL Submersible Pump Cable (14AWG and larger, up to 7 conductors) c(UL) CIC/TC FT4 per CSA C22.2 No. 239 / CSA C22.2 No. 230 (Excludes 250 MCM to 500 MCM sizes) 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 NFPA 79 VDE 250-1 (meets rated voltage requirements only) LVD 2014/35/EU (Low Voltage Directive) RoHS directive UKCA		