ÖLFLEX® 190 & 190 CY

UDB602002EN
Date: August 1, 2026

1. APPLICATION

ÖLFLEX® 190 is a multi-conductor cable with a highly oil-, coolant-, and solvent-resistant jacket for control and power applications in an industrial environment. It is designed for use in all electrical equipment under dry, damp and wet conditions. ÖLFLEX® 190 is also UL TC approved so it can be routed in tray as well. ÖLFLEX® 190 CY is a shielded version for EMI and RFI protection.

Applications:

CNC machining centers, grinding machines, bottling equipment, conveyors, processing equipment, assembly lines, control panels and can substitute for anywhere that industrial equipment cables are used.

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 Appliance Wiring Material and internal or external wiring of electrical and electronic equipment applications.

2. CABLE DESCRIPTION

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

3. TECHNICAL DATA

Conductor Stranding	20 AWG (0,50 mm²) to 6 AWG (16,0 mm²): Class 5 (IEC 60228; VDE 0295) 20 & 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 Standard 1277 and with CSA standards C22.2 No. 210	
Insulation	Specially formulated PVC insulation	
Color Code	Black conductors with white numbers plus green/yellow (30% stripe width) 2 conductor cable: No green/yellow ground	
Inner Sheath	Specially formulated PVC jacket (ÖLFLEX 190 CY only)	
Shield	Tinned Copper Braid Shield (85% coverage) (ÖLFLEX 190 CY only)	
Outer Sheath	Specially formulated thermoplastic polymer jacket	
Nominal Voltage	UL PLTC (20 AWG Only): UL TC (18 AWG - 2 AWG): UL WTTC (18 AWG - 2 AWG) / CSA AWM: VDE U_0/U:	300V 600V 1000V 600/1000V

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Test Voltage	2000V	
Min Bend radius	For installation:	4 x OD
	Shielded	6 x OD
Temperature Range	For stationary use:	-40°C to +90°C
	For flexible use:	-5°C to +90°C
Cable Attributes	OR-04, FR-03, WT-02, MP-03 Sunlight resistant, Direct Burial	
Approvals	UL Type TC (Tray Cable) - ER* (Exposed Run) per UL 1277 (18 AWG - 2 AWG) UL WTTC (Wind Turbine Tray Cable) per UL 2277 (18 AWG - 2 AWG) UL PLTC (Power Limited Tray Cable) –ER* (Exposed Run) per UL 13 (20 AWG Only) UL AWM (Appliance Wiring Material) 21098 (Oil), 2587 & 20886 per UL 758 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 NFPA 79 VDE 250-1 (meets rated voltage requirements only) LVD 2014/35/EU (Low Voltage Directive) RoHS directive UKCA	

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