

ÖLFLEX® FD 890 & 890 CY

UDB8920034EN
Date: January 1, 2019

1. APPLICATION

ÖLFLEX® FD 890 & 890 CY is a multi-conductor cable designed for continuous flex applications. The shielded version has an overall tinned copper braid that provides protection against EMI and RFI. Fine stranding and specially formulated compounds optimize flexing life and provide excellent resistance to mineral oils, synthetic oils, and water-based coolants.

Applications:

Cable tracks & Power Chains; gantry robots; pick and place units; conveyor systems; machine tool and other continuous flexing applications.

Underwriters Laboratories

For use in electrical equipment applications, Appliance Wiring Material 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

- Super fine bare copper wire better than class 6 stranding
- Specially formulated PVC insulation
- Black color coded conductors with white identification
- Green/Yellow ground wire
- Black UV, oil and flame resistant specially formulated Inner PVC jacket
- Overall TC Braid Shield
- Black UV, oil and flame resistant specially formulated Outer PVC jacket

3. TECHNICAL DATA

Conductor Stranding	20 AWG (0,5 mm ²) to 2 AWG (35 mm ²): Super fine wire better than Class 6 (IEC 60228; VDE 0295)	
Design / Make-up	Cable is designed in accordance with the requirements of UL Standard 758 and with CSA standards C22.2 No. 210	
Insulation	Specially formulated PVC insulation, Dry Lubricant, non-woven wrapping over outer layer	
Color Code	Black conductors with white numbers plus green/yellow (30% stripe width)	
Inner Sheath	Specially formulated PVC jacket (ÖLFLEX FD 890 CY only)	
Shield	Tinned copper Braid Shield (85% coverage) (ÖLFLEX FD 890 CY only)	
Outer Sheath	Specially formulated PVC jacket	
Nominal Voltage	UL AWM / CSA AWM:	600V
	VDE U ₀ /U:	300/500V
Test Voltage	2000V	

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Min Bend radius	For stationary use:	5 x OD 6 x OD (Shielded)
	For continuous flexing:	7.5 x OD 10 x OD (Shielded)
Temperature Range	For stationary use:	-25°C to +90°C
	For continuous flexing:	-5°C to +90°C
Cable Attributes	OR-04, FR-02, CF-03, MP-02 Passes Impact and Crush tests per UL 1277, excluding 20 AWG	
Approvals	UL AWM 2587 (Appliance Wiring Material) per UL 758 UL AWM 21098 (Appliance Wiring Material) per UL 758 CSA AWM I/II A/B FT1 per CSA C22.2 No. 210	
Additional	NFPA 79 VDE 250-1 (meets rated voltage requirements only) LVD 2014/35/EU (Low Voltage Directive) RoHS directive	