

DATA SHEET

0037030

ÖLFLEX[®] SERVO FD 790 CP

valid from : 01.07.2008

Application

ÖLFLEX[®] SERVO FD 790 CP are high flexible screened servomotor cables with PUR jacket, UL approved and with DESINA admission, provided for flexible use and fixed installation under medium mechanical load conditions. They are among others for use in dry, damp and wet rooms. Outdoors they may only be installed in observation of the temperature range.

ÖLFLEX[®] SERVO FD 790 CP cables are increased oil-resistant and at room temperature generally resistant against acids and caustic solutions. They are microbe-proof and hydrolysis resistant. Furthermore the jacket is resistant against abrasion and scouring and also cut resistant. The cables are special for use as connection between frequency converter and servomotors and for use in power chains, automatic manipulators and in permanently moved machine parts. Usage of these cables in moving cable carriers, respectively on motor drum guidance or under a strain of more than 15 N / mm² is not allowed. The screen is a protection against electrical interference.

USE according to UL: USE according to CSA:	PUR-sheathed cables for external interconnection of electrical equipment PUR-sheathed cables for external interconnection of electrical equipment with or without mechanical load
Design	
Conductor	extra fine wire strands of bare copper acc. to IEC 60228 resp. VDE 0295, class 6
Core insulation Core identification	PVC-compound TI2 acc. to HD 21.1 resp. VDE 0281-1 and UL 1581 acc. to VDE 0293-1, with or without gn/ye ground conductor black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293 part 334
Taping Inner sheath	nonwoven wrapping over core assembly for cables with control pairs only, special PVC compound, colour: grey
Screen Outer sheath	braid of tinned copper, coverage = 85% (nominal value) PUR-compound TMPU acc. to HD 22.10 S1 resp. VDE 0282-10, flame retardant colour: orange

Electrical properties at 20 °C

Nominal voltage	supply cores: control pairs:	600 / 1000V 300 V	UL/CSA 600 V UL/CSA 300 V
Test voltage	supply cores: control pairs:	4000 V 1500 V	C/S 4000 V C/S 750 V

Mechanical and thermal properties

Temperature range	for flex. applications fixed installation	-0 ℃ up to +80 ℃ max. conductor t -40 ℃ up to +80 ℃ max. conductor t			
Min. bending radius	4 x cable diameter for fixed installation 12 x cable diameter for flex. applications				
Flammability	vertical flame test acc. to UL 1581 § 1061 FT-1 flame retardant in acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2				
Oil resistance	acc. to IEC 60811-2-1	resp. VDE 0473 part 811-2-1			
Approvals	UL AWM Style 20234, CSA AWM II A/B, without control pairs UL AWM Style 20235, with control pairs				
Tests EC directive	acc. to IEC 60811-x-x resp. VDE 0473 part 811-x-x and VDE 0472 this cable confirms to ECD 2006/95/EC (low voltage directive)				
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