Application

ÖLFLEX-SERVO-FD® 781 CP are Cu-shielded, low capacitance, high flexible Servo Drive Power cables, especially designed for usage in power chains, handling systems and similar continuous flex applications of industrial machines and machine tool industry. The insulation of these cables are made from TPE, based on polyolefin, the jacket from PUR. Usage of these cables can be in dry and wet locations as well as outdoor under observation of the temperature range. The jacket is improved oil resistant and at room temperature generally resistant against some acids and caustics solutions. Usage on motor drum guidance or under a strain of more than 15N/mm² per conductor cross section is not allowed. The materials used are halogen free and environment-friendly.

The PUR-jacket is flame retardant and conforms to DESINA standard.

The screening braid is a protection against electrical interference.

Technical data

Conductor	extra fine wire strand of bare copper, as per IEC 60228 (VDE 0295) class 6
Design	in acc. to HD 21.5 (VDE 0281-5)
Core Insulation	Polyolefine based TPE (Thermoplastic Elastomere)
Core identification	as per EN 50334 (VDE 0293), black cores with white numbers, and green/yellow conductor as PE
EMI shield	Braid of tinned copperwire, optical covering 80 % (nominal)
Outer sheath	PUR compound TMPU as per HD22.10 (VDE 0282-10) in halogen free and flame retardant version, black,
Nominal voltage Test Voltage	600/1000 V 4000 V AC
Temp. range	flexible use -30 up to +70° C max. conductor temperature.
Min.bendingradius	flexible use 7,5 x cable diameter
Flame retardance	acc. to IEC 60 332-1 (EN 50265-2-1, VDE 0482 part 265-2-1)
Oil resistance	as per IEC 60 227/ST9 (VDE 0472 part 803 test methode B)
EC directive	These cables conforms to EC Directive 73/23/EEC (Low Voltage Directive)