



# ARCOCAVI

## Technical Data

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**ARCO - EXTRAFLEX 39 - 40 - 41 - 42**  
**EXTRA-FLEXIBLE PAIR TWISTED CABLES FOR**  
**DATA TRANSMISSION - EMC SHIELDED**  
**PRIMARY INSULATION: 39-41=PVC 40-42=PETP**  
**PUR JACKET**

## **A**pplication

Data transmission  
Dynamic applications  
Robotics

## **T**ype of cable

### Conductors sections:

mm<sup>2</sup> 2 x 0,14 - 2 x 0,25 - 2 x 0,34 for 39 - 40

mm<sup>2</sup> 2 x 0,50 - 2 x 0,75 - 2 x 1,00 for 40 - 42

**Number of conductors:** from 2 up to 25.

## **C**onstructional characteristics

### Conductor stranding:

extra-flexible class 6 acc. Standards  
VDE 0295 - IEC 228 - CEI 20-29

### Primary insulation:

special PVC compound for types 39 - 41  
polyester terphthalate PETP for types 40 - 42

**Cores identification:** colour code acc. DIN 47100  
other identification on request

### EMC shield (type 36):

tinned copper braid on total - covering  $\geq 85\%$

**Taping:** special tape

**Jacket:** polyurethane PUR abrasion-free  
colour grey RAL 7001 or other

## **T**echnical characteristics and ratings

**Service voltage:** 300 V

**Test voltage:** 1500 V

### Insulation resistance:

$\geq 20$  Mohm x km ( at 20°C ) for types 39 - 40

$\geq 100$  Mohm x km ( at 20°C ) for types 41 - 42

**Capacitance:** abt. 120 nF/km for types 39 - 41  
abt. 100 nF/km for types 40 - 42

### Temperature:

service from -10°C to +70°C ( for 39-41 types )

service from -10°C to +110°C ( for 40 - 42 types )

storage from -30°C to +80°C

### Min. bending radius:

10 x external cable diam. for types 39 - 41

8 x external cable diam. for types 40 - 42

**Translation speed:** 140 m/min. for types 39 - 41  
180 m/min for types 40 - 42

**Max. acceleration:** 5 m/s<sup>2</sup> for types 39 - 41  
7 m/s<sup>2</sup> for types 40 - 42

**Flame resistance:** VDE 0472-804B - IEC 332-1 - CEI 20-35

**Oil resistance:** VDE 0472-803-B ( ASTM2 oil )  
CNOMO E.03.40.150N - NFT46-013 ( for resistance to industrial oils )

**Halogen-free version:** VDE 0472-815