

CP SERIES

**Extreme Performance Flexible
PUR Energy Chain Control Cable
300/500V 80°C**



APPLICATIONS:

Energy/Drag Chains Designed for continuous movement where tight bending radii is required.

Control and Signals As power control or signal cables on machines, portable tools, conveying equipment or similar industrial applications requiring screened cable for EMC.

Extreme Environments Extremely robust control cable with high abrasion and tear resistant properties plus high resistance to mineral oils and coolant emulsions.

PRODUCT FEATURES:

- ▶ Extra long service life
- ▶ Extra high flexibility suitable for continuous movement
- ▶ Suitable for tight bending radii
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ High oil resistance especially to coolant emulsions
- ▶ Resistant to solvents, acids, alkalis and hydraulic liquidity
- ▶ Ozone, hydrolysis and conditionally microbe resistant
- ▶ High abrasion and tear resistance
- ▶ Heat and chemical resistant (*See Technical Section*)

CONSTRUCTION:

Conductor Annealed plain copper stranded extreme flexibility (Class 5 & 6).

Insulation Special STPE with the cores stranded together in layers (if needed) while each layer has a different lay direction: 1st layer – left direction. 2nd layer – right direction etc.

Each layer has a special wrapping for increased flexibility.

Sheath Special PUR TPU full polyurethane adhesion free.

CHARACTERISTICS:

Operating Temperature Range Fixed -50°C to 80°C / Flexing -40°C to 80°C.

Maximum Conductor Temperature 80°C.

Rated Voltage U_o/U 300/500v **Max AC Operating Voltage** U_o 318v.

Minimum Bending Radius Fixed 5 x cable diameter / Flexing 7.5 x cable diameter.

Sheath Colour Grey.

Standard Core Colours Black (numbered) + 1 Green/Yellow Earth.

Max. speed 4m/s.

Max. acceleration 10m/s².

Max. cycle 5 million.

Test of alternating bending cycle Approx 10 million VDE 0472-603 (H).

Relevant Standards VDE 0295, IEC 60228, VDE 0281-1, VDE 0293, IEC 60332-1, VDE 0472-804, **CE** Directive 2006/95/EC,

RoHS Compliant.

Code	No. of Cores x Size (mm ²)	Approx. Stranding No. of wires x mm	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)
CP04/0.75	4 x 0.75	42/0.15	7.0	69
CP07/0.75	7 x 0.75	42/0.15	9.0	118
CP12/0.75	12 x 0.75	42/0.15	11.0	183
CP18/0.75	18 x 0.75	42/0.15	12.9	270
CP25/0.75	25 x 0.75	42/0.15	15.4	374
CP04/1.5	4 x 1.5	84/0.15	8.7	106
CP07/1.5	7 x 1.5	84/0.15	11.3	205
CP12/1.5	12 x 1.5	84/0.15	13.8	320
CP18/1.5	18 x 1.5	84/0.15	16.3	465