

## RHCY SERIES

High Performance Flexible CBS 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** For use on machines, portable tools, conveying equipment and other industrial applications requiring screened cables for EMC.

### PRODUCT FEATURES:

- ▶ Extra high flexibility suitable for continuous movement
- ▶ Screened to prevent external interference
- ▶ Suitable for tight bending radii
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ To be earthed using EMC compatible glands
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

### CONSTRUCTION:

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

**Insulation** Special SPVC with the cores stranded together in layers (if needed) while each layer has a different lay direction:

1<sup>st</sup> layer – left direction. 2<sup>nd</sup> layer – right direction.

Each layer has a special wrapping for increased flexibility.

**Screening** Tinned copper braid 80% minimum coverage interwoven with synthetic cross-helix to improve bending behaviour.

**Sheath** Special SPVC.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20°C to 80°C /

Flexing -5°C to 80°C.

**Maximum Conductor Temperature** 80°C.

**Rated Voltage** U<sub>o</sub>/U 300/500v **Max AC Operating Voltage** U<sub>o</sub> 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** 2m/s.

**Max. acceleration** 10m/s<sup>2</sup>.

**Max. cycle** >1 million.

**Relevant Standards** VDE 0295, VDE 0812-1, VDE 281, IEC 60332-1, IEC 60228, **CE** Directive 2006/95/EC, **RoHS** Compliant.

Code	No. of Cores x Size (mm <sup>2</sup> )	Approx. Stranding No. of wires x mm	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)
RHCY03/0.75	3 x 0.75	42/0.15	7.8	128
RHCY04/0.75	4 x 0.75	42/0.15	8.3	184
RHCY05/0.75	5 x 0.75	42/0.15	9.1	200
RHCY07/0.75	7 x 0.75	42/0.15	10.2	269
RHCY25/0.75	25 x 0.75	42/0.15	16.1	441
RHCY04/1.5	4 x 1.5	84/0.15	9.5	243
RHCY07/1.5	7 x 1.5	84/0.15	12.2	403
RHCY04/2.5	4 x 2.5	140/0.15	11.2	264