

## RH SERIES

High Performance Flexible Energy  
Chain Control Cable  
300/500V 80°C



### APPLICATIONS:

**Energy/Drive 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.

### PRODUCT FEATURES:

- ▶ Extra high flexibility suitable for continuous movement
- ▶ Suitable for tight bending radii
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ 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.

**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** Uo/U 300/500v **Max AC Operating Voltage** Uo 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** 10 m/s<sup>2</sup>.

**Max. cycle** >1 million.

**Relevant Standards** VDE 0295 Class 6, VDE 0281, VDE 0812,  
IEC 60332-1, IEC 60228, **CE** Directive 2006/95/EC,

**RoHS** Compliant.

| Code       | No. of Cores<br>x Size<br>(mm <sup>2</sup> ) | Approx.<br>Stranding<br>No. of<br>wires x size | Approx.<br>Overall Diameter<br>(mm) | Approx.<br>Weight<br>(Kg/Km) |
|------------|----------------------------------------------|------------------------------------------------|-------------------------------------|------------------------------|
| RH03/0.75G | 3 x 0.75                                     | 42/0.15                                        | 5.7                                 | 73                           |
| RH04/0.75G | 4 x 0.75                                     | 42/0.15                                        | 6.4                                 | 77                           |
| RH05/0.75G | 5 x 0.75                                     | 42/0.15                                        | 7.0                                 | 119                          |
| RH07/0.75G | 7 x 0.75                                     | 42/0.15                                        | 8.3                                 | 165                          |
| RH12/0.75G | 12 x 0.75                                    | 42/0.15                                        | 10.2                                | 247                          |
| RH18/0.75G | 18 x 0.75                                    | 42/0.15                                        | 12.1                                | 356                          |
| RH25/0.75G | 25 x 0.75                                    | 42/0.15                                        | 14.9                                | 498                          |
| RH07/1.0G  | 7 x 1.0                                      | 56/0.15                                        | 8.8                                 | 192                          |
| RH12/1.0G  | 12 x 1.0                                     | 56/0.15                                        | 10.8                                | 295                          |
| RH18/1.0G  | 18 x 1.0                                     | 56/0.15                                        | 13.0                                | 420                          |
| RH04/1.5G  | 4 x 1.5                                      | 84/0.15                                        | 7.4                                 | 147                          |
| RH07/1.5G  | 7 x 1.5                                      | 84/0.15                                        | 9.9                                 | 273                          |
| RH12/1.5G  | 12 x 1.5                                     | 84/0.15                                        | 12.1                                | 391                          |
| RH18/1.5G  | 18 x 1.5                                     | 84/0.15                                        | 14.5                                | 590                          |
| RH25/1.5G  | 25 x 1.5                                     | 84/0.15                                        | 17.8                                | 801                          |
| RH04/2.5G  | 4 x 2.5                                      | 140/0.15                                       | 9.1                                 | 200                          |

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