

EP SERIES

Extreme Performance Flexible Cable 0.6/1kV 90°C



APPLICATIONS:

Food, Beverage & Laboratory With its microbe and hydrolysis resistant and super durable PUR sheath this cable suits the food and beverage industry and laboratory environments.

Mobile Tools Suitable for floor sanding and drills where extreme wear resistance and reverse bending is required.

Power With its extra durable PUR sheath this cable is suitable for outdoor temporary power supplies, extension leads and agricultural equipment.

Materials and Handling Systems Suitable for cable spring reelers and large energy chains.

Low Temperature Extreme flexibility in low temperatures such as freezers and ski fields.

PRODUCT FEATURES:

- ▶ Extreme resistance to abrasion, tearing & notching
- ▶ Good reverse bending strength (min 30,000 reverse bends VDE0472)
- ▶ Non-marking sheath
- ▶ Microbe and hydrolysis resistant
- ▶ Halogen free
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Resistant to environmental factors such as oxidation, ozone & sunlight
- ▶ Very good behaviour to variations of outdoor temperatures
- ▶ Good tensile strength, tearing strength and abrasion resistance
- ▶ Good elongation at break
- ▶ Good dielectric properties
- ▶ Avian and rodent resistance
- ▶ Water and moisture resistance
- ▶ Resistance to seawater and wastewater
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

See over for full product table ▶

CONSTRUCTION:

Conductor Annealed plain copper stranded high flexibility (Class 5).

Insulation EPR R90 Type E14 (to HD22) PETP.

Inner Sheath TPE 6mm² and above.

Sheath PUR halogen free polyurethane compound type TMPU acc. To HD22.10 S1.

CHARACTERISTICS:

Operating Temperature Range Fixed -45°C to 90°C / Flexing -40°C to 90°C

Maximum Conductor Temperature 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

Rated Voltage U_o/U 300/500v H05BQ-F. U_o/U 0.6/1kV H07BQ-F.

Minimum Bending Radius Fixed 4 x cable diameter / Freely flexing 5 x cable diameter / Drag chains and spring reelers 10 x diameter.

Sheath Colour Orange.

Standard Core Colours

2 Core – Blue, Brown.

3 Core – Blue, Brown, Green/Yellow.

4 Core – Brown, Black, Grey, Green/Yellow.

5 Core – Blue, Brown, Black, Grey, Green/Yellow.

Relevant Standards DIN VDE 0295, DIN VDE 0293-308, (HAR) HD22.10.S1, IEC 60228, **CE** Directive 2006/95/EC and **RoHS** Compliant.

EP SERIES continued

Code	No. of Cores x Size (mm ²)	Approx. Stranding No. of wires x mm	Approx. Overall Diameter + / - 10% (mm)	Approx. Weight (Kg/Km)	Nominal Amps un-enclosed protected from sun @ 30°C fixed application		3 Phase Volt Drop @ 50Hz / MAX. Conductor Temp: 90°C (Mv/Am)
					Touching		
HO5BQ-F 300/500V							
EP2/0.75OR	2 x 0.75	24/0.20	7.0	65	12		54.800
EP2/1.0OR	2 x 1.0	32/0.20	7.5	78	20		46.800
EP3G0.75OR	3 x 0.75	24/0.20	7.5	78	12		54.800
EP3G1.0OR	3 x 1.0	32/0.20	8.0	91	20		46.800
EP4G0.75OR	4 x 0.75	24/0.20	8.0	91	11		54.800
EP4G1.0OR	4 x 1.0	32/0.20	8.5	108	17		46.800
EP5G0.75OR	5 x 0.75	24/0.20	9.0	113	11		54.800
EP5G1.0OR	5 x 1.0	32/0.20	9.5	137	17		46.800
HO7BQ-F 0.6/1kV							
EP2/1.5OR	2 x 1.5	30/0.25	9.0	111	25		30.000
EP3G1.5OR	3 x 1.5	30/0.25	9.5	130	25		30.000
EP3G2.5OR	3 x 2.5	50/0.25	11.0	191	33		16.400
EP3G4.0OR	3 x 4.0	56/0.30	13.0	266	44		10.200
EP4G1.5OR	4 x 1.5	30/0.25	10.5	162	21		30.000
EP4G2.5OR	4 x 2.5	50/0.25	12.5	238	29		16.400
EP4G4.0OR	4 x 4.0	56/0.30	14.0	331	37		10.200
EP4G6.0OR	4 x 6.0	84/0.30	16.5	472	47		6.800
EP4G10.0OR	4 x 10.0	80/0.40	21.1	718	67		4.050
EP4G16.0OR	4 x 16.0	128/0.40	23	1068	89		2.550
EP4G25.0OR	4 x 25.0	200/0.40	29.7	1400	119		1.610
EP4G35.0OR	4 x 35.0	280/0.40	33	1870	149		1.170
EP5G1.5OR	5 x 1.5	30/0.25	11.5	195	21		30.000
EP5G2.5OR	5 x 2.5	50/0.25	13.5	291	29		16.400
EP5G4.0OR	5 x 4.0	56/0.30	16.0	411	37		10.200
EP5G6.0OR	5 x 6.0	84/0.30	20	581	47		6.800
EP5G10.0OR	5 x 10.0	80/0.40	23	896	67		4.050
EP5G16.0OR	5 x 16.0	128/0.40	27	1210	119		2.550
EP7G1.5OR	7 x 1.5	30/0.25	14.0	291	15		30.000
EP7G2.5OR	7 x 2.5	50/0.25	16.5	431	20		16.400