

## 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 6mm<sup>2</sup> 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<sub>o</sub>/U 300/500v HO5BQ-F. U<sub>o</sub>/U 0.6/1kV HO7BQ-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.


Multi Core – Black Numbered + 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	Approx. Stranding	Approx. Overall Diameter + / - 10%	Approx. Weight	Nominal Amps un-enclosed protected from sun @ 30°C fixed application	3 Phase Volt Drop @ 50Hz / MAX. Conductor Temp:
	(mm <sup>2</sup> )	No. of wires x mm	(mm)	(Kg/Km)	Touching 	90°C (Mv/Am)
<b>HO5BQ-F 300/500V</b>						
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
<b>HO7BQ-F 0.6/1kV</b>						
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
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
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
EP5G6.0OR	5 x 6.0	84/0.30	20	581	47	6.800
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