



## FLEXIBLE MULTI CORE CABLES

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## FTM SERIES

**High Performance Flexible Twin Marine Cable 300/500V 75°C**



### APPLICATIONS:

**Marine** Suitable for wiring on pleasure craft and other marine applications requiring flexible tinned copper conductors.

**Lighting** Used for festoon and garden lighting where a flexible cable is required.

**Audio** Amplifiers and audio equipment where oxygen free copper wire is required.

### PRODUCT FEATURES:

- ▶ Tinned fine stranded copper conductor
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

### CONSTRUCTION:

**Conductor** Annealed tinned copper stranded high flexibility (Class 5).

**Insulation** Special SPVC V-75.

**Sheath** SPVC 4V-75.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20°C to 75°C / Flexing -5°C to 75°C.

**Maximum Conductor Temperature** 75°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.

**Max AC Operating Voltage** U<sub>o</sub> 318v.



**Minimum Bending Radius** Fixed 10 x cable diameter / Flexing 15 x cable diameter.

**Sheath Colour** Black.

**Standard Core Colours** Red, Black.

**Relevant Standards** AS/NZS 1125, AS/NZS 3808, IEC 60332-1,

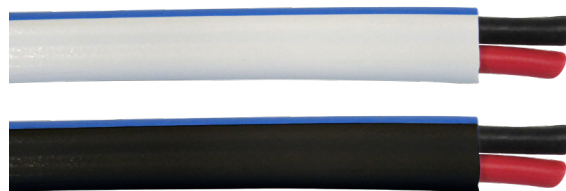
**RoHS** Compliant.

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)	Nominal Amps un-enclosed protected from sun @ 30°C fixed application		1 Phase Volt Drop @50Hz / MAX. Conductor Temp: 75°C (Mv/Am)
					Spaced 	Touching 	
<b>FTM2/0.75</b>	2 x 0.75	24/0.20	4.2h x 6.5w	38	14	12	63.200
<b>FTM2/1.5</b>	2 x 1.5	48/0.20	4.6h x 7.2w	60	23	21	32.300
<b>FTM2/2.5</b>	2 x 2.5	80/0.20	5.4h x 8.8w	90	30	29	19.400
<b>FTM2/4.0</b>	2 x 4.0	127/0.20	6.2h x 10.5w	130	40	38	12.000



## MTSV SERIES

**Survey Compliant Flexible Twin Marine Cable 0.6/1kV 90°C**



### APPLICATIONS:

**Marine** Suitable for wiring on pleasure craft and commercial vessels that require survey compliant cables.

### PRODUCT FEATURES:

- ▶ Tinned copper conductor
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (See Technical Section)

### CONSTRUCTION:

**Conductor** Annealed tinned copper stranded high flexibility (Class 5).

**Insulation** XLPE.

**Sheath** PVC ST2.

### CHARACTERISTICS:

**Temperature Range** Fixed -20°C to 90°C.

**Voltage Rating** 0.6/1kV.



**Minimum Bending Radius** Fixed 10 x Cable Diameter.

**Sheath Colour** Black with Blue stripe, or White with Blue stripe.

**Core Colour** Red & Black.

**Maximum Conductor temperature** 90°C.

**Relevant Standards** IEC 60228, IEC 60092-360, IEC 60092-350, IEC 60092-353, IEC 60332-3-22, **RoHS** Compliant.

Code	Size (Core x mm)	Conductor Construction (mm)	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Max D.C. Resistance at 20°C (m Ω/mt)	Nominal Amps un-enclosed protected from sun @ 30°C fixed installation 1 Phase		1 Phase Volt Drop @50Hz / MAX. Conductor Temp: 75°C (Mv/Am)
						Spaced 	Touching 	
MTSV2/0.75	2 x 0.75	24/0.2	4.8 x 7.6	38	26.7	-	-	-
MTSV2/1.0	2 x 1.0	32/0.2	5.0 x 8.0	53	20	-	-	-
MTSV2/1.5	2 x 1.5	48/0.2	5.4 x 8.6	60	13.7	-	-	-
MTSV2/2.5	2 x 2.5	80/0.2	5.8 x 9.4	90	8.21	30	29	19.400
MTSV2/4.0	2 x 4.0	127/0.2	7.0 x 11.6	130	5.09	40	38	12.000
MTSV2/6.0	2 x 6.0	190/0.2	7.9 x 13.4	143	3.39	51	48	7.496
MTSV2/10	2 x 10	318/0.2	9.2 x 15.8	310	1.95	72	67	4.458
MTSV2/16	2 x 16	504/0.2	10.4 x 18.0	403	1.24	95	89	2.807
MTSV2/25	2 x 25	770/0.2	12.7 x 22.2	615	0.795	125	119	1.778
MTSV2/35	2 x 35	703/0.25	14.7 x 26.0	765	0.565	156	146	1.282

Duty Cycle Current Rating (Amps)				
Welding, Automotive and Battery Charging (% of a 5 minute period @ 30°C)				
Size	100%	60%	30%	25%
2 x 4.0	42	54	77	82
2 x 6.0	62	80	113	120
2 x 10.0	100	107	126	134
2 x 16.0	139	152	187	200
2 x 25.0	183	209	265	285
2 x 35.0	227	264	243	370

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## TW-T SERIES

High Performance Flexible Twin Marine Cable 0.6/1kV 90°C



### APPLICATIONS:

**Marine** Flexible tinned copper for battery power supplies and winches.

**Automotive** Suitable for use as battery/jumper cables (indoor/outdoor) and power leads for forklifts and field conveyers.

**Telecommunications** Where finely stranded large cross section cables are required for minimal volt drop.

**Audio** Power supply to amplifiers and audio equipment where oxygen free copper wire is required.

### PRODUCT FEATURES:

- ▶ Tinned fine stranded copper conductor
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (See Technical Section)

### CONSTRUCTION:

**Conductor** Annealed tinned copper stranded high flexibility (Class 5).

**Insulation** SPVC.

**Sheath** Transparent SPVC.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20°C to 90°C / Flexing -5°C to 75°C.



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

**Rated Voltage** 0.6/1kV.

**Sheath Colour** Clear sheath.

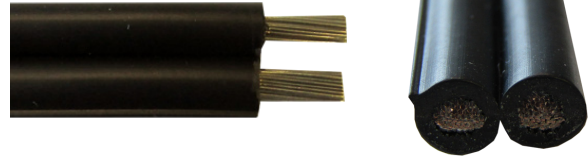
**Core Colour** Red and Black.

**Relevant Standards** DIN VDE 0250, DIN VDE 472, IEC 60332-1, AS/NZS 1125, **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)	Max D.C. Resistance at 20°C (m Ω/mt)	Nominal Amps un-enclosed protected from sun @ 30°C fixed installation 1 Phase		1 Phase Volt Drop @50Hz / MAX. Conductor Temp: 75°C (Mv/Am)
						Spaced 	Touching 	
<b>TW02.5T</b>	2 x 2.5	80/0.20	5.5 x 12.0	90	8.21	30	29	19.400
<b>TW04T</b>	2 x 4.0	128/0.20	6.0 x 13.0	130	5.09	40	38	12.000
<b>TW06T</b>	2 x 6.0	192/0.20	6.5 x 14.0	220	3.39	51	48	7.496
<b>TW10T</b>	2 x 10.0	322/0.20	8.0 x 17.0	340	1.95	72	67	4.458
<b>TW16T</b>	2 x 16.0	511/0.20	9.80 x 19.60	453	1.24	95	89	2.807
<b>TW25T</b>	2 x 25.0	784/0.20	11.30 x 22.60	659	0.795	125	119	1.778
<b>TW35T</b>	2 x 35.0	714/0.25	12.80 x 25.60	894	0.565	156	146	1.282

Duty Cycle Current Rating (Amps) Welding, Automotive and Battery Charging (% of a 5 minute period @ 30°C)				
Size	100%	60%	30%	25%
<b>2 x 4.0</b>	42	54	77	82
<b>2 x 6.0</b>	62	80	113	120
<b>2 x 10.0</b>	100	107	126	134
<b>2 x 16.0</b>	139	152	187	200
<b>2 x 25.0</b>	183	209	265	285
<b>2 x 35.0</b>	227	264	243	370

## GLT SERIES

High Performance Flexible Twin  
Garden Lighting Cable ELV 90°C

## APPLICATIONS:

**Lighting** Used for festoon and garden lighting where a flexible water resistant PVC cable is required.

## PRODUCT FEATURES:

- ▶ Raised rib on one core for polarity identification +/-
- ▶ Tinned fine stranded copper conductor
- ▶ UV stabilised
- ▶ Water resistant
- ▶ Heat, oil and chemical resistant (See Technical Section)

## CONSTRUCTION:

**Conductor** Annealed tinned copper stranded high flexibility

**Insulation** Special SPVC V-90HT.

## CHARACTERISTICS:

**Operating Temperature Range** Fixed -20°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** 50 VAC / 120 VDC ELV (Not for mains connection)

**Minimum Bending Radius** Fixed 10 x cable diameter / Flexing 15 x cable diameter.

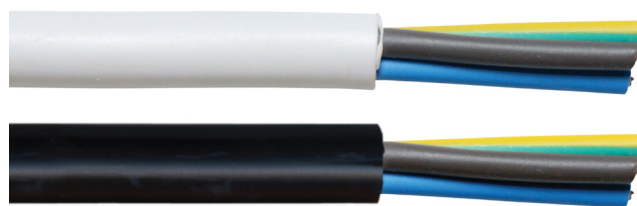
**Insulation Colour** Black. (Raised rib on one core for polarity identification +/-)

**Relevant Standards** AS/NZS 1125, AS/NZS 3808, IEC 60332-1, **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)	Max D.C Conductor Resistance @20°C Ω/km	1 Phase Volt Drop @50Hz / MAX. Conductor Temp:  (Mv/Am) 75°C
GLT02/1.0	2 x 1.0	32/0.20	2.6h x 5.7w	38	20	47.5
GLT02/1.5	2 x 1.5	30/0.25	4.0h x 8.3w	64	13.7	32.3
GLT02/2.5	2 x 2.5	50/0.25	4.3h x 9.0w	90	8.21	19.4
GLT02/4.0	2 x 4.0	127/0.20	4.7h x 9.5w	124	5.09	12.0
GLT02/6.0	2 x 6.0	192/0.20	5.5h X 11.5w	160	3.39	7.25

## PF SERIES

**High Performance Flexible Cable**  
**250/440V 90°C**



### APPLICATIONS:

**Lighting** Used for interconnection for various forms of lighting including fluorescent fittings, high bays / low bays, floodlights and reading lamps.

**Appliance** Suitable for use as interconnection leads for appliances.

**Extension Leads** Suitable for domestic power leads (not recommended for industrial or harsh environments).

### PRODUCT FEATURES:

- ▶ Metre marked
- ▶ Extremely fine stranded copper conductor
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (See Technical Section)

### CONSTRUCTION:

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

**Insulation** SPVC V-90. **Sheath** SPVC.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20 to 90°C / Flexing -5 to 75°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>0</sub>/U 250/440V.

**Max AC Operating Voltage** U<sub>0</sub> 318V.

**Minimum Bending Radius** Fixed 7.5 x cable diameter / Flexing 15 x cable diameter.

**Sheath Colour** Black, White (other colours available on request).

#### Standard Core Colour

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** AS/NZS 3191, AS/NZS 3008, AS/NZS 3808, AS/NZS 1125, IEC 60332-1, **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)	Nominal Amps un-enclosed in air	Single Phase Volt Drop Conductor Temp: 75°C (Mv/Am)
PF02/0.5	2 x 0.5	16/0.20	5.1	40	3	94.7
PF02/0.75	2 x 0.75	24/0.20	6.5	60	7.5	63.2
PF02/1.0	2 x 1.0	32/0.20	6.8	70	10	47.5
PF02/1.5	2 x 1.5	28/0.26	7.8	100	15	32.3
PF02/2.5	2 x 2.5	47/0.26	9.6	160	20	19.4
PF02/4.0	2 x 4.0	60/0.29	10.6	180	25	12.0
PF03/0.5	3 x 0.5	16/0.20	6.4	40	3	94.7
PF03/0.75	3 x 0.75	24/0.20	6.8	70	7.5	63.2
PF03/1.0	3 x 1.0	32/0.20	7.2	100	10	47.5
PF03/1.5	3 x 1.5	28/0.26	8.5	120	15	32.3
PF03/2.5	3 x 2.5	47/0.26	10.4	150	20	19.4
PF03/4.0	3 x 4.0	60/0.29	11.5	230	25	12.0
PF04/0.5	4 x 0.5	16/0.20	6.9	60	3	94.7
PF04/0.75	4 x 0.75	24/0.20	7.5	70	7.5	63.2
PF04/1.0	4 x 1.0	32/0.20	8.1	100	10	47.5
PF04/1.5	4 x 1.5	28/0.26	9.4	140	15	32.3
PF04/2.5	4 x 2.5	47/0.26	11.5	250	20	19.4
PF04/4.0	4 x 4.0	60/0.29	12.7	300	25	12.0
PF05/0.75	5 x 0.75	24/0.20	8.1	100	7.5	63.2
PF05/1.0	5 x 1.0	32/0.20	8.8	125	10	47.5
PF05/1.5	5 x 1.5	28/0.26	9.8	170	15	32.3
PF05/2.5	5 x 2.5	47/0.26	11.7	250	20	19.4
PF05/4.0	5 x 4.0	60/0.29	13.8	360	25	12.0

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## CHEMTUFF ORDINARY DUTY OD SERIES

Ultra Performance Flexible Rubber Cable 250/440V 90°C

### APPLICATIONS:

**Chemtuff** Used in applications that require a greater resistance to chemicals, solvents, oils and fats.

**Extension Leads** Used on construction sites due to its outstanding flexibility and excellent coiling characteristics in cold conditions.

**Power** For machine tools, construction and engineering equipment and conveyers.

### PRODUCT FEATURES:

- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Extremely flexible
- ▶ Water and moisture resistant
- ▶ Suitable for permanent submersion to 200 metres
- ▶ Heat, oil and chemical resistant (*See Technical Section*)



### CONSTRUCTION:

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

**Insulation** SPVC V-90.

**Sheath** SER105.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20°C to 90°C / Flexing -5°C to 75°C.

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

**Rated Voltage** Uo/U 250/440v.

**Max AC Operating Voltage** Uo 318v.

**Minimum Bending Radius** Fixed 5 x cable diameter / Flexing 6 x cable diameter.

**Sheath Colour** Black, Orange (Blue, Yellow in 3 x 1.5mm only. Subject to availability).


#### Standard Core Colour

2 Core – Blue, Brown.

3 Core – Blue, Brown, Green/Yellow.

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

**Relevant Standards** AS/NZS 3191, IEC 60227, IEC 60332-1, AS/NZS 3808, AS/NZS 3008, **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)	Nominal Amps un-enclosed protected from sun @ 30°C fixed application		3 Phase Volt Drop @50Hz / MAX. Conductor Temp: 90°C (Mv/Am)
					Touching		
OD2/1.0	2 x 1.0	32/0.20	6.8	70	10		46.800
OD3/1.0	3 x 1.0	32/0.20	7.4	80	10		46.800
OD3/1.5	3 x 1.5	48/0.20	8.4	105	16		30.000
OD3/2.5	3 x 2.5	80/0.20	10.0	160	20		16.400
OD4/1.0	4 x 1.0	32/0.20	8.0	100	10		46.800
OD4/1.5	4 x 1.5	48/0.20	9.2	130	16		30.000
OD4/2.5	4 x 2.5	80/0.20	11.2	200	20		16.400

## CHEMTUFF ONESKIN ON SERIES

Ultra Performance Flexible Rubber Single Sheath Cable 0.6/1kV 90°C

### APPLICATIONS:

**Chemtuff** Used in applications that require a greater resistance to chemicals, solvents, oils and fats.

**Extension Leads** Used on construction sites due to its 0.6/1kV heavy duty insulation, outstanding flexibility and cable memory. Suitable for tough climatic and mechanical conditions.

**Power** For machine tools, construction and engineering equipment and conveyers.

**Pumping** Suitable for permanent submersion to 200 metres.

**Lighting & Entertainment** With its extra durable SER sheath, this cable is suitable for outdoor temporary power supply and lighting leads.

### PRODUCT FEATURES:

- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Extremely flexible
- ▶ Water and moisture resistant
- ▶ Suitable for permanent submersion to 200 metres
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

See over for full product table ▶



### CONSTRUCTION:

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

**Insulation** X-90.

**Sheath** SER105.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20°C to 90°C / Flexing -5°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** Uo/U 0.6/1kV.

**Max AC Operating Voltage** Uo 0.7kV.

**Minimum Bending Radius** Fixed 5 x cable diameter / Flexing 6 x cable diameter.

**Sheath Colour** Black, Orange (Blue, Yellow in 3 x 1.5mm only. Subject to availability).

#### Standard Core Colour

2 Core – Blue, Brown.

3 Core – Blue, Brown, Green/Yellow.


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

5 Core – Blue, Red, White, Black, Green/Yellow.

**Relevant Standards** AS/NZS 3191, AS/NZS 5000.1, AS/NZS 3308, IEC 60227, IEC 60332-1, **RoHS** Compliant.



## CHEMTUFF ONESKIN ON SERIES continued

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)	Nominal Amps un-enclosed protected from sun @ 30°C fixed application		3 Phase Volt Drop @50Hz / MAX. Conductor Temp:  90°C (Mv/Am)
					Touching		
ON2/1.5	2 x 1.5	48/0.20	9.0	110	25		30.000
ON2/2.5	2 x 2.5	80/0.20	10.2	162	33		16.400
ON3/1.5	3 x 1.5	48/0.20	9.7	137	21		30.000
ON3/2.5	3 x 2.5	80/0.20	10.9	184	29		16.400
ON3/4.0	3 x 4.0	127/0.20	13.3	310	37		10.200
ON3/6.0	3 x 6.0	190/0.20	14.2	396	47		6.800
ON4/1.5	4 x 1.5	48/0.20	10.7	160	21		30.000
ON4/2.5	4 x 2.5	80/0.20	12.0	229	29		16.400
ON4/4.0	4 x 4.0	127/0.20	14.6	384	37		10.200
ON4/6.0	4 x 6.0	190/0.20	15.5	496	47		6.800
ON4/10	4 x 10.0	320/0.20	17.9	890	67		4.050
ON4/16	4 x 16.0	504/0.20	21.5	1230	89		2.550
ON5/1.5	5 x 1.5	48/0.20	11.7	198	21		30.000
ON5/2.5	5 x 2.5	80/0.20	13.2	279	29		16.400
ON5/4.0	5 x 4.0	127/0.20	16.3	472	37		10.200
ON5/6.0	5 x 6.0	190/0.20	16.8	607	47		6.800
ON5/10	5x 10.0	320/0.20	19.5	1140	67		4.050
ON5/16	5 x 16.0	504/0.20	23.6	1549	89		2.550

## CHEMTUFF TWINSKIN HD SERIES

Ultra Performance Flexible Rubber Double Sheath Cable 0.6/1kV 90°C

### APPLICATIONS:

**Chemtuff** Used in applications that require a greater resistance to chemicals, solvents, oils and fats.

**Extension Leads** Used on construction sites due to its outstanding flexibility and cable memory. Suitable for tough climatic and mechanical conditions.

**Power** With a separator acting as a second sheath this cable provides extra safety for machine tools, construction and engineering equipment and conveyers.

**Pumping** Suitable for permanent submersion to 200 metres.

**Lighting & Entertainment** With its extra durable SER sheath, this cable is suitable for outdoor temporary power supply and lighting leads.

### PRODUCT FEATURES:

- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Extremely flexible
- ▶ Water and moisture resistant
- ▶ Suitable for permanent submersion to 200 metres
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

See over for full product table ▶



### CONSTRUCTION:

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

**Insulation** X-90.

**Separator** An added separator or bedding of extruded V-90HT material for safety and durability. Silicate powder lubricant between cores and inner sheath to reduce friction.

**Sheath** SER105.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20°C to 90°C / Flexing -5°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** Uo/U 0.6/1kV.

**Max AC Operating Voltage** Uo 0.7kV.

**Minimum Bending Radius** Fixed 5 x cable diameter / Flexing 6 x cable diameter.

**Sheath Colour** Black, Orange (Available in Yellow - HDT Series).

#### Standard Core Colour

2 Core – Blue, Brown.


3 Core – Blue, Brown, Green/Yellow.

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

5 Core – Blue, Red, White, Black, Green/Yellow.

**Relevant Standards** AS/NZS 3191, AS/NZS 5000.1, AS/NZS 3308, IEC 60227, IEC 60332-1, **RoHS** Compliant.

## CHEMTUFF TWINSKIN HD SERIES continued

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)	Nominal Amps un-enclosed protected from sun @ 30°C fixed application		3 Phase Volt Drop @50Hz / MAX. Conductor Temp:  90°C (Mv/Am)
					Touching		
HD02/1.5	2 x 1.5	48/0.20	10.0	130	25		30.000
HD02/2.5	2 x 2.5	80/0.20	10.8	165	33		16.400
HD03/1.0	3 x 1.0	32/0.20	9.8	90	17		46.800
HD03/1.5	3 x 1.5	48/0.20	10.5	140	21		30.000
HD03/2.5	3 x 2.5	80/0.20	12.4	194	29		16.400
HD03/4.0	3 x 4.0	127/0.20	14.4	319	37		10.200
HD03/6.0	3 x 6.0	190/0.20	15.9	406	47		6.800
HD04/1.5	4 x 1.5	48/0.20	11.6	170	21		30.000
HD04/2.5	4 x 2.5	80/0.20	14.0	239	29		16.400
HD04/4.0	4 x 4.0	127/0.20	16.0	394	37		10.200
HD04/6.0	4 x 6.0	190/0.20	19.0	505	47		6.800
HD04/10	4 x 10.0	318/0.20	25.8	975	67		4.050
HD04/16	4 x 16.0	504/0.20	28.6	1285	89		2.550
HD05/1.5	5 x 1.5	48/0.20	13.0	210	21		30.000
HD05/2.5	5 x 2.5	80/0.20	15.4	289	29		16.400
HD05/4.0	5 x 4.0	127/0.20	17.4	482	37		10.200
HD05/6.0	5 x 6.0	190/0.20	21.0	619	47		6.800
HD05/10	5 x 10.0	318/0.20	28.1	1190	67		4.050
HD05/16	5 x 16.0	504/0.20	31.7	1590	89		2.550

## CHEMTUFF TWINSKIN HDT SERIES

**Ultra Performance Flexible Rubber  
Double Sheath Cable 0.6/1kV 90°C**

### APPLICATIONS:

**Chemtuff** Used in applications that require a greater resistance to chemicals, solvents, oils and fats.

**Marine** Flexible tinned copper for installations on pleasure craft, ship to shore and other marine applications.

**Extension Leads** Used on construction sites due to its outstanding flexibility and cable memory. Suitable for tough climatic and mechanical conditions.

**Power** With a separator acting as a second sheath this cable provides extra safety for machine tools, construction and engineering equipment and conveyers.

**Pumping** Suitable for permanent submersion to 200 metres.

**Lighting & Entertainment** With its extra durable SER sheath and high visibility, this cable is suitable for outdoor temporary power supply and lighting leads.

### PRODUCT FEATURES:

- ▶ Yellow sheath for high visibility
- ▶ Tinned fine stranded copper conductor
- ▶ Non-marking sheath suits ship to shore use
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Extremely flexible
- ▶ Water and moisture resistant
- ▶ Suitable for permanent submersion to 200 metres
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

[See over for full product table ▶](#)



### CONSTRUCTION:

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

**Insulation** X-90.

**Separator** An added separator or bedding of extruded V-90HT material for safety and durability. Silicate powder lubricant between cores and inner sheath to reduce friction.

**Sheath** SER105.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20°C to 90°C / Flexing -5°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>0</sub>/U 0.6/1kV.

**Max AC Operating Voltage** U<sub>0</sub> 0.7kV.

**Minimum Bending Radius** Fixed 5 x cable diameter / Flexing 6 x cable diameter.

**Sheath Colour** Yellow

**Standard Core Colour**

3 Core – Blue, Brown, Green/Yellow.


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

5 Core – Blue, Red, White, Black, Green/Yellow.

**Relevant Standards** AS/NZS 3191, AS/NZS 5000.1, AS/NZS 3308, IEC 60227, IEC 60332-1, **RoHS** Compliant.



## CHEMTUFF TWINSKIN HDT SERIES continued

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)	Nominal Amps un-enclosed protected from sun @ 30°C fixed application		3 Phase Volt Drop @50Hz / MAX. Conductor Temp:  90°C (Mv/Am)
					Touching		
HD03/1.5T	3 x 1.5	48/0.20	10.5	140	21		30.000
HD03/2.5T	3 x 2.5	80/0.20	12.4	194	29		16.400
HD03/4.0T	3 x 4.0	127/0.20	14.4	319	37		10.200
HD03/6.0T	3 x 6.0	190/0.20	15.9	406	47		6.800
HD04/1.5T	4 x 1.5	48/0.20	11.6	170	21		30.000
HD04/2.5T	4 x 2.5	80/0.20	14.0	239	29		16.400
HD04/4.0T	4 x 4.0	127/0.20	16.0	394	37		10.200
HD04/6.0T	4 x 6.0	190/0.20	19.0	505	47		6.800
HD05/1.5T	5 x 1.5	48/0.20	13.0	210	21		30.000
HD05/2.5T	5 x 2.5	80/0.20	15.4	289	29		16.400
HD05/4.0T	5 x 4.0	127/0.20	17.4	482	37		10.200
HD05/6.0T	5 x 6.0	190/0.20	21.0	619	47		6.800
HD05/10T	5 x 10.0	318/0.20	28.1	1190	67		4.050
HD05/16T	5 x 16.0	504/0.20	31.7	1590	89		2.550
HD05/35T	5 x 35.0	1120/0.20	36.6	3210	149		1.170

## ALLFLEX INDUSTRIAL MLG2 MULTI SERIES

**Ultra Performance Flexible Rubber  
Industrial / Marine Cable 0.6/1kV 90°C  
AS/NZS 5000.1, IEC 60092, H07RN-F**

### APPLICATIONS:

**Hazardous Areas** With correct explosion proof glands this cable can be installed in locations subject to explosion hazards rated 0.6/1kV (DIN VDE 0165).

**Waste Water Treatment Plants** Suitable for submersion in polluted liquids and aggressive environments up to 10 metres.

**Lighting & Entertainment** With its extra durable CPE sheath this cable is suitable for outdoor temporary power supplies and lighting leads.

**Marine** Flexible tinned copper & Lloyds approved cable for installation in pleasure craft, super yachts and other marine applications.

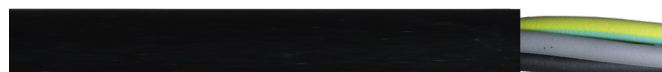
**Power** Used on construction sites due to its outstanding flexibility, durability and industrial performance.

**Pumping** Suitable for permanent submersion to 500 metres.

### PRODUCT FEATURES:

- ▶ Tinned fine stranded copper conductor
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Water and moisture resistant
- ▶ Good elongation at break
- ▶ Good Dielectric properties
- ▶ Resistant to environmental factors such as oxidation, ozone and sunlight
- ▶ Very good behaviour to variations of outdoor temperature
- ▶ Suitable for permanent submersion to 500 metres
- ▶ Good tensile strength, tearing strength and abrasion resistance
- ▶ Heat, oil and chemical resistant (See *Technical Section*)

See over for full product table ▶



### CONSTRUCTION:

**Conductor** Annealed tinned copper stranded high flexibility (Class 5).

**Insulation** EPR R90.

**Sheath** CPE Elastomer Rubber.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -40°C to 90°C / Flexing -25°C to 90°C.

**Maximum Conductor Temperature** 90°C.

**Rated Voltage** U<sub>o</sub>/U 0.6/1kV.

**Minimum Bending Radius** Fixed 4 x cable diameter / flexing 6 x cable diameter.

**Sheath Colour** Black.

**Standard Core Colours**

**MLCON-G2**

3 to 19 Core - Black Numbered + Green/Yellow

**ML-G2**

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 0165, IEC 60092-360 IEC 60092-353, IEC 60092-359, IEC 60092-351, IEC 60079.14, AS/NZS 1125, AS/NZS 3808, **RoHS** Compliant.

**AS/NZS 5000.1** Electric cables for working voltage 0.6/1kV.

**IEC 60092-360** Electrical installations in ships - Part 360: Insulating and sheathing materials for shipboard and offshore units, power, control, instrumentation and telecommunication cables.


**IEC 60092-350** Electrical installations in ships - Part 350: General construction and test methods.

**IEC 60332-3-22** Test for vertical flame spread of vertically-mounted bunched wires or cables.

**H07RN-F** Harmonised type heavy duty rubber cable construction (1.5mm<sup>2</sup> and above).

**Certification Approvals** Lloyds Type Approval CEF/SA.

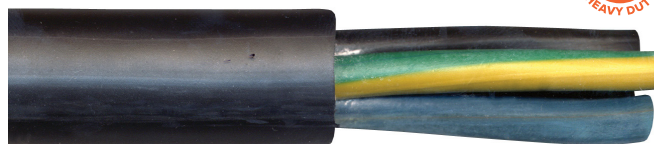
## ALLFLEX INDUSTRIALL MLG2 MULTI SERIES continued

Code	No. of Cores x Size  (mm <sup>2</sup> )	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  Touching 	3 Phase Volt Drop @50Hz / MAX. Conductor Temp:  90°C (Mv/Am)
<b>COMPLIES ONLY TO IEC 60092-350. CORE COLOURS: BLACK NUMBERED + GRN/YEL</b>						
MLCON03/1.0BK G2	3 x 1.0	32 x 0.20	10.1	128	18	46.800
MLCON04/1.0BK G2	4 x 1.0	32 x 0.20	11.0	160	16	46.800
MLCON05/1.0BK G2	5 x 1.0	32 x 0.20	12.1	172	14	46.800
MLCON07/1.0BK G2	7 x 1.0	32 x 0.20	12.8	191	12	46.800
MLCON12/1.0BK G2	12 x 1.0	32 x 0.20	16.9	287	12	46.800
MLCON19/1.0BK G2	19 x 1.0	32 x 0.20	20.2	432	12	46.800
<b>COMPLIES TO AS/NZS 5000.1, IEC 60092-350 &amp; H07RN-F TYPE</b>						
ML02/1.5BK G2	2 x 1.5	30/0.25	10.8	130	25	30.000
ML02/2.5BK G2	2 x 2.5	50/0.25	11.8	190	33	16.400
ML02/4.0BK G2	2 x 4.0	56/0.30	13.2	260	44	10.200
ML02/6.0BK G2	2 x 6.0	84/0.30	15.0	350	56	6.800
ML02/10.0BK G2	2 x 10.0	80/0.40	20.1	538	67	4.050
ML02/16.0BK G2	2 x 16.0	128/0.40	22.9	749	89	2.550
ML03/1.5BK G2	3 x 1.5	30/0.25	11.6	160	21	30.000
ML03/2.5BK G2	3 x 2.5	50/0.25	12.7	230	29	16.400
ML03/4.0BK G2	3 x 4.0	56/0.30	14.2	320	37	10.200
ML03/6.0BK G2	3 x 6.0	84/0.30	16.1	425	47	6.800
ML03/10.0BK G2	3 x 10.0	80/0.40	21.5	765	67	4.050
ML03/16.0BK G2	3 x 16.0	128/0.40	24.0	1060	89	2.550
ML04/1.5BK G2	4 x 1.5	30/0.25	12.8	200	21	30.000
ML04/2.5BK G2	4 x 2.5	50/0.25	13.9	290	29	16.400
ML04/4.0BK G2	4 x 4.0	56/0.30	15.6	400	37	10.200
ML04/6.0BK G2	4 x 6.0	84/0.30	17.9	540	47	6.800
ML04/10.0BK G2	4 x 10.0	80/0.40	23.0	930	67	4.050
ML04/16.0BK G2	4 x 16.0	128/0.40	26.0	1300	89	2.550
ML04/25.0BK G2	4 x 25.0	200/0.40	32.0	1950	119	1.610
ML04/35.0BK G2	4 x 35.0	280/0.40	35.0	2330	149	1.170
ML04/50.0BK G2	4 x 50.0	400/0.40	40.0	3200	187	0.868
ML05/1.5BK G2	5 x 1.5	30/0.25	14.0	240	21	30.000
ML05/2.5BK G2	5 x 2.5	50/0.25	15.3	350	29	16.400
ML05/4.0BK G2	5 x 4.0	56/0.30	17.3	500	37	10.200
ML05/6.0BK G2	5 x 6.0	84/0.30	19.8	670	47	6.800
ML05/10.0BK G2	5 x 10.0	80/0.40	25.8	1140	67	4.050
ML05/16.0BK G2	5 x 16.0	128/0.40	29.0	1610	89	2.550
ML05/25.0BK G2	5 x 25.0	200/0.40	35.0	2440	119	1.610
ML05/35.0BK G2	5 x 35.0	280/0.40	38.0	3310	149	1.170
ML05/50.0BK G2	5 x 50.0	400/0.40	47.0	4120	187	0.868
ML07/1.5BK G2	7 x 1.5	30/0.25	15.3	330	15	30.000
ML07/2.5BK G2	7 x 2.5	50/0.25	17.0	470	20	16.400
ML12/1.5BK G2	12 x 1.5	30/0.25	20.8	480	15	30.000
ML12/2.5BK G2	12 x 2.5	50/0.25	22.9	690	20	16.400
ML19/1.5BK G2	19 x 1.5	30/0.25	24.7	710	15	30.000

Firstflex has taken every precaution to ensure accurate information in this catalogue, but accept no liability for any errors or omissions. Firstflex reserves the right to modify specifications at any time.

## HO PLUS SERIES

**Ultra Performance Flexible Rubber Cable**



### APPLICATIONS:

**Hazardous Areas** With correct explosion proof glands this cable can be installed in locations subject to explosion hazards rated 0.6/1kV (DIN VDE 0165).

**Waste Water Treatment Plants** Suitable for submersion in polluted liquids and aggressive environments up to 10 metres.

**Lighting & Entertainment** With its extra durable CPE sheath this cable is suitable for outdoor temporary power supplies and lighting leads.

**Marine** Flexible tinned copper cable for installation in pleasure craft and other marine applications.

**Power** Used on construction sites due to its outstanding flexibility, durability and industrial performance.

**Pumping** Suitable for permanent submersion to 200 metres.

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

### PRODUCT FEATURES:

- ▶ Tinned fine stranded copper conductor
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Water and moisture resistant
- ▶ Good elongation at break
- ▶ Resistant to environmental factors such as oxidation, ozone and sunlight
- ▶ Suitable for permanent submersion to 200 metres
- ▶ Good tensile strength, tearing strength and abrasion resistance
- ▶ Heat, oil and chemical resistant (See Technical Section)

### CONSTRUCTION:

**Conductor** Annealed tinned copper stranded high flexibility (Class 5).

**Insulation** EPR R90.

**Sheath** CPE Elastomer Rubber.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -40°C to 90°C / Flexing -25°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** H05=300/500V, H07=0.6/1kV.

**Max AC Operating Voltage**  $U_0$  0.7kV.

**Minimum Bending Radius** Fixed 4 x cable diameter / flexing 6 x cable diameter / Drag chains and spring reelers 10 x cable diameter.

**Sheath Colour** Black.

**Standard Core Colours**


2 Core – Blue, Brown.

3 Core – Blue, Brown, Green/Yellow.

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

Multi Core – Black Numbered + Green/Yellow.

**Relevant Standards** H07RN-F Type, DIN VDE 0295, DIN VDE 0165, IEC 60332-1, EN 50363, EN 50525-2-21, **RoHS** Compliant.

Code	No. of Cores x Size (mm <sup>2</sup> )	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 Touching 	3 Phase Volt Drop @50Hz / MAX. Conductor Temp: 90°C (Mv/Am)
<b>H05RN-F 300/500V</b>						
<b>HO2/0.75B</b>	2 x 0.75	24/0.20	6.4	62	12	54.800
<b>HO2/1.0B</b>	2 x 1.0	32/0.20	7.0	72	20	46.800
<b>HO3G0.75B</b>	3 x 0.75	24/0.20	7.0	77	12	54.800
<b>HO3G1.0B</b>	3 x 1.0	32/0.20	7.1	125	20	46.800
<b>HO4G0.75B</b>	4 x 0.75	24/0.20	8.8	78	11	54.800
<b>HO4G1.0B</b>	4 x 1.0	32/0.20	10.0	155	17	46.800
<b>H07RN-F 0.6/1kV</b>						
<b>HO7G4.0B</b>	7 x 4.0	56/0.30	21.5	660	27	10.200
<b>HO7G6.0B</b>	7 x 6.0	84/0.30	24.8	956	35	6.800

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## AR SERIES

Ultra Performance Flexible Power  
& Control Cable 0.6/1kV 90°C

## APPLICATIONS:

**Cable Festoon Systems** Suitable for Backing Gate, machine and plant applications.

**Energy/Drag Chains** Power & Control cables for highest requirements in drag chain applications.

**Food & Beverage** Resistant to microbe & hydrolysis making it suitable for the food & beverage industry.

**Harsh Environments** With its high flexibility, robust TPE sheath and tensile strengthen centre support, this cable is suited to most harsh industrial environments including compost, sewage, car wash, laundry/humid rooms and outdoors.

## PRODUCT FEATURES:

- ▶ Resistant to oil acc. to DIN EN 60811-404 4 h at +100 °C
- ▶ Silicone-free
- ▶ UV,- ozone- and weather resistant acc. EN 50396 und HD 605 S2
- ▶ Resistant to coolant fluids, microbes, hydrofluoric acid, salt acid and weakened sulfuric (See Technical section)
- ▶ NEW: with Ripcord, for faster and core protected dismantling

## CONSTRUCTION:

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

**Insulation** PELON®2

**Sheath** TPE

## CHARACTERISTICS:

**Operating Temperature Range** Fixed -40°C to 90°C Flexing -30°C to 90°C

**Maximum Conductor Temperature** 90°C

**Rated Voltage** U<sub>o</sub>/U 0.6/1kV

**Max AC Operating Voltage** U<sub>o</sub> 0.7kV

**Minimum Bending Radius** Fixed 3 x cable diameter/ Flexing 5 x cable diameter.

**Speed** Self-supporting: max 10 m/s, Gliding: max 5 m/s


**Traverse Length** Self-supporting/Gliding max 400 m

**Acceleration** max 100m/s

**Sheath Colour** Black

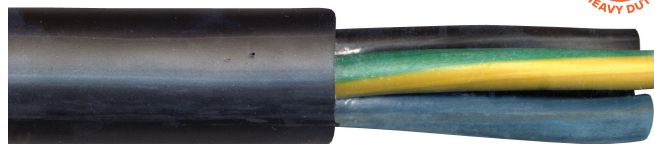
**Standard Core Colours** Black (numbered) + Green/Yellow Earth

**Relevant Standards** IEC 60228, IEC 60332-1, VDE 0295, DIN 47100, EN 60811, EN 50396, HD 605S2, **RoHS** Compliant, **CE** Directive 2014/35/EU, UL/CSA Approvals

Code	No. of Cores x Size  (mm <sup>2</sup> )	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
					Touching 
AR07/1.5	7 X 1.5	84/0.15	10	164	13
AR12/1.5	12 X 1.5	84/0.15	14.8	301	8

## HR SERIES

**High Performance Flexible Rubber Cable 450/750V 60°C**



### APPLICATIONS:

**Hazardous Areas** With correct explosion proof glands this cable can be installed in locations subject to explosion hazards rated 0.6/1kV (DIN VDE 0165).

**Waste Water Treatment Plants** Suitable for submersion in polluted liquids and aggressive environments up to 10 metres.

**Lighting & Entertainment** With its extra durable CPE sheath this cable is suitable for outdoor temporary power supplies and lighting leads.

**Power** Used on construction sites due to its outstanding flexibility, durability and cable memory.

**Pumping** Suitable for permanent submersion to 200 metres.

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

### PRODUCT FEATURES:

- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Water and moisture resistant
- ▶ Good elongation at break
- ▶ Resistant to environmental factors such as oxidation, ozone and sunlight
- ▶ Suitable for permanent submersion to 200 metres
- ▶ Good tensile strength, tearing strength and abrasion resistance
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

### CONSTRUCTION:

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

**Insulation** EPR.

**Sheath** CPE Elastomer Rubber.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -40°C to 60°C / Flexing -30°C to 60°C.

**Maximum Conductor Temperature** 60°C.

**Rated Voltage** Uo/U 450/750V (Fixed laying permitted up to 1000V).

**Minimum Bending Radius** Fixed 5 x cable diameter.

**Sheath Colour** Black.

#### 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** H07RN-F, HD361 S2/S3, VDE 0295, VDE 0282, IEC 60811-2-1, VDE 0293-308, EN 60811-2-1, IEC 60332-1,

CE Directive 2006/95/EC, and **RoHS** Compliant.

[See over for full product table ▶](#)

## HR SERIES continued

Code	No. of Cores x Size	Approx. Stranding	Approx. Overall Diameter	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	+/- 10% (mm)	(Kg/Km)	Touching 	90°C (Mv/Am)
HR3G1.5	3 x 1.5	30/0.25	10.5	130	15	30.000
HR3G2.5	3 x 2.5	50/0.25	12.5	191	21	16.400
HR3G4.0	3 x 4.0	56/0.31	14.5	298	30	10.200
HR3G6.0	3 x 6.0	84/0.30	16.1	407	37	6.800
HR3G25	3 x 25.0	200/0.41	27.5	1157	92	1.610
HR4G1.5	4 x 1.5	30/0.25	11.5	162	16	30.000
HR4G2.5	4 x 2.5	50/0.25	13.8	238	22	16.400
HR4G4.0	4 x 4.0	56/0.31	15.5	331	30	10.200
HR4G6.0	4 x 6.0	84/0.30	17.5	472	37	6.800
HR4G10	4 x 10.0	30/0.40	23.7	718	52	4.050
HR4G16	4 x 16.0	1280/0.40	26.9	1068	69	2.550
HR4G25	4 x 25.0	200/0.41	33.4	1400	92	1.610
HR4G35	4 x 35.0	280/0.41	36.8	1870	114	1.170
HR4G50	4 x 50.0	400/0.40	42.6	3200	143	0.868
HR4G70	4 x 70.0	356/0.50	48.3	4200	178	0.609
HR4G95	4 x 95.0	485/0.50	54.7	5490	210	0.450
HR4G120	4 x 120.0	614/0.50	59.5	7098	246	0.366
HR5G1.5	5 x 1.5	30/0.25	12.5	195	16	30.000
HR5G2.5	5 x 2.5	50/0.25	15.0	291	22	16.400
HR5G4.0	5 x 4.0	56/0.31	17.7	411	30	10.200
HR5G6.0	5 x 6.0	84/0.31	19.8	581	38	6.800
HR5G10	5 x 10.0	80/0.41	26.0	896	54	4.050
HR5G16	5 x 16.0	128/0.41	30.0	1810	71	2.550
HR5G25	5 x 25.0	200/0.40	36	2440	94	1.610
HR5G35	5 x 35.0	280/0.40	41	3310	114	1.170
HR5G50	5 x 50.0	400/0.40	45.0	4000	143	0.868
HR5G70	5 x 70.0	356/0.50	52.5	5256	178	0.609
HR5G95	5 x 95.0	485/0.50	56.6	6780	210	0.450
HR7G1.5	7 x 1.5	30/0.25	16.0	330	12	30.000
HR7G2.5	7 x 2.5	50/0.25	18.5	470	16	16.400
HR12G1.5	12 x 1.5	30/0.25	19.0	480	10	30.000
HR12G2.5	12 x 2.5	50/0.25	22.5	690	14	16.400
HR19G1.5	19 x 1.5	30/0.25	23.5	788	7	30.000
HR19G2.5	19 x 2.5	50/0.25	27.7	1068	10	16.400
HR24G1.5	24 x 1.5	30/0.25	27.5	968	7	30.000
HR24G2.5	24 x 2.5	50/0.25	32.6	1400	7.5	16.400

## 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 reellers 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** Uo/U 300/500v HO5BQ-F. Uo/U 0.6/1kV HO7BQ-F.

**Minimum Bending Radius** Fixed 4 x cable diameter / Freely flexing 5 x cable diameter / Drag chains and spring reellers 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  (mm <sup>2</sup> )	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  Touching 	3 Phase Volt Drop @ 50Hz / MAX. Conductor Temp:  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



# BCW series

## Standard Performance Bare Copper Wire

**Firstflex (Bare Cooper Wire) BCW Series** earthing cable wire for transformer earth leads, earth grid and electrical grounding systems.

- ✓ Cut to length - No Cutting Fees, No Minimum Order Quantity.
- ✓ All sizes metre marked for better length control.
- ✓ Custom printing on request for identification purposes.
- ✓ Free printing on 100 metres or more.
- ✓ Greater flexibility 35mm and above.
- ✓ Available sizes 16mm<sup>2</sup> to 120mm<sup>2</sup>.
- ✓ Annealed plain copper stranded (Class 2) or greater.

