



FLEXIBLE SINGLE CORE CABLES

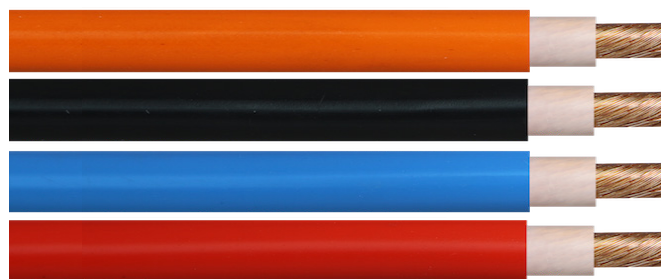
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FLEXIBLE SINGLE CORE CABLES

CHEMTUFF SDI BFX SERIES

Ultra Performance Flexible Rubber SDI Cable 0.6/1kV 110°C



APPLICATIONS:

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

Power Switchboards, flexible droppers from busbars, transformers, load banks or other equipment requiring fixed or flexible cable.

Pumping Suitable for permanent submersion to 500 metres.

Welding Suitable for welding and electrode leads.

Generator Sets As leads for temporary power supplies.

Automotive Battery leads or jumpers, battery chargers, electric forklifts.

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

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

PRODUCT FEATURES:

- ▶ High current capacity
- ▶ Flame retardant
- ▶ Water and moisture resistant
- ▶ Very good behaviour to variations of outdoor temperature
- ▶ Suitable for permanent submersion to 500 metres
- ▶ UV stabilised
- ▶ Heat, oil and chemical resistant (See Technical Section)

CONSTRUCTION:

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

Insulation X-HF-110.

Sheath SER105.

CHARACTERISTICS:

Operating Temperature Range Fixed -40°C to 110°C / Flexing -25°C to 90°C.

Maximum Conductor Temperature 110°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

Rated Voltage U₀/U 0.6/1kV.

Max AC Operating Voltage U₀ 0.7kV.

Minimum Bending Radius Fixed 4 x cable diameter / Flexing 6 x cable diameter.

Sheath Colour Orange, Black. (Red and Blue subject to availability).

Relevant Standards IEC 60332-1, AS/NZS 5000.1, AS/NZS 1125, AS/NZS 3808, AS/NZS 3008, **RoHS** Compliant.

| Code | No. of Cores x Size (mm ²) | 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 installation 3 Phase | | | 3 Phase Volt Drop @50Hz / MAX. Conductor Temp: | |
|----------|--|-------------------------------------|-------------------------------|------------------------|---|---------------------|----------|--|---------------|
| | | | | | Spaced | Spaced from Surface | Touching | 90°C (Mv/Am) | 110°C (Mv/Am) |
| BFX002.5 | 1 x 2.5 | 140/0.15 | 7.0 | 49 | 45 | 39 | 36 | 16.400 | 17.400 |
| BFX004 | 1 x 4.0 | 224/0.15 | 8.0 | 75 | 59 | 51 | 48 | 10.200 | 10.800 |
| BFX006 | 1 x 6.0 | 192/0.20 | 8.5 | 99 | 75 | 65 | 61 | 6.810 | 7.230 |
| BFX010 | 1 x 10.0 | 294/0.20 | 9.6 | 150 | 106 | 91 | 86 | 4.050 | 4.300 |
| BFX016 | 1 x 16.0 | 470/0.20 | 10.7 | 215 | 139 | 120 | 112 | 2.550 | 2.710 |
| BFX025 | 1 x 25.0 | 726/0.20 | 12.4 | 310 | 185 | 159 | 149 | 1.620 | 1.720 |
| BFX035 | 1 x 35.0 | 1040/0.20 | 13.5 | 415 | 229 | 197 | 184 | 1.170 | 1.250 |
| BFX050 | 1 x 50.0 | 1499/0.20 | 16.0 | 560 | 289 | 249 | 232 | 0.872 | 0.929 |
| BFX070 | 1 x 70.0 | 2100/0.20 | 18.6 | 780 | 364 | 312 | 292 | 0.615 | 0.657 |
| BFX095 | 1 x 95.0 | 2745/0.20 | 21.5 | 990 | 439 | 378 | 352 | 0.457 | 0.491 |
| BFX120 | 1 x 120.0 | 1554/0.30 | 23.5 | 1270 | 521 | 447 | 417 | 0.373 | 0.403 |
| BFX150 | 1 x 150.0 | 1961/0.30 | 26.6 | 1575 | 601 | 516 | 482 | 0.316 | 0.344 |
| BFX185 | 1 x 185.0 | 2331/0.30 | 29.0 | 1945 | 689 | 592 | 552 | 0.269 | 0.296 |
| BFX240 | 1 x 240.0 | 3172/0.30 | 32.0 | 2420 | 829 | 712 | 663 | 0.227 | 0.252 |
| BFX300 | 1 x 300.0 | 4001/0.30 | 36.5 | 3150 | 958 | 820 | 764 | 0.202 | 0.227 |
| BFX400 | 1 x 400.0 | 5296/0.30 | 41.0 | 4370 | 1155 | 982 | 915 | 0.183 | 0.208 |
| BFX500 | 1 x 500.0 | 6648/0.30 | 45.0 | 5275 | 1348 | 1138 | 1059 | 0.170 | 0.195 |

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CFX SERIES

**Standard Performance Flexible
(Fixed application) SDI Cable
0.6/1kV 90°C**



APPLICATIONS:

Power Switchboards, submains & subcircuits, buried & in underground or overhead ducts, transformers, load banks or other equipment requiring fixed applications.

Pumping Suitable for permanent submersion to 200 metres.

Generator Sets As leads for temporary power supplies.

Telecommunications Where finely stranded large cross section cables are required for minimal volt drop in a fixed application.

PRODUCT FEATURES:

- ▶ Small overall diameter for tight spaces
- ▶ Flame retardant
- ▶ Water and moisture resistant
- ▶ Suitable for permanent submersion to 200 metres
- ▶ UV stabilised
- ▶ Heat, oil and chemical resistant (See Technical Section)

CONSTRUCTION:

Conductor Annealed plain copper stranded flexibility (Class 5).

Insulation X-90.

Sheath SPVC.

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 U_0/U 0.6/1kV.

Max AC Operating Voltage U_0 0.7kV.

Minimum Bending Radius Fixed 4 x cable diameter / Flexing 6 x cable diameter.

Sheath Colour Black. (Red subject to availability).

Relevant Standards IEC 60332-1, AS/NZS 5000.1, AS/NZS 1125, AS/NZS 3808, AS/NZS 3008, **RoHS** Compliant.

BEP Certified - Greenstar compliant.

| Code | No. of Cores x Size (mm ²) | 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 installation 3 Phase | | | 3 Phase Volt Drop @50Hz / MAX. Conductor Temp: 90°C (Mv/Am) |
|--------|---|-------------------------------------|-------------------------------|------------------------|---|---------------------|----------|--|
| | | | | | Spaced | Spaced from Surface | Touching | |
| CFX016 | 1 x 16.0 | 122/0.39 | 9.20 | 215 | 117 | 100 | 94 | 2.550 |
| CFX025 | 1 x 25.0 | 189/0.39 | 10.82 | 310 | 156 | 133 | 125 | 1.620 |
| CFX035 | 1 x 35.0 | 265/0.39 | 12.00 | 415 | 195 | 166 | 158 | 1.170 |
| CFX050 | 1 x 50.0 | 380/0.39 | 13.72 | 560 | 245 | 210 | 194 | 0.872 |
| CFX070 | 1 x 70.0 | 346/0.49 | 15.60 | 780 | 311 | 265 | 248 | 0.615 |
| CFX095 | 1 x 95.0 | 457/0.49 | 17.25 | 990 | 375 | 319 | 298 | 0.457 |
| CFX120 | 1 x 120.0 | 587/0.49 | 19.00 | 1270 | 447 | 381 | 354 | 0.373 |
| CFX150 | 1 x 150.0 | 728/0.49 | 21.05 | 1575 | 517 | 440 | 409 | 0.316 |
| CFX185 | 1 x 185.0 | 886/0.49 | 23.21 | 1945 | 594 | 505 | 470 | 0.269 |
| CFX240 | 1 x 240.0 | 1172/0.49 | 25.74 | 2420 | 716 | 608 | 565 | 0.227 |
| CFX300 | 1 x 300.0 | 1464/0.49 | 28.25 | 3150 | 827 | 701 | 650 | 0.202 |
| CFX400 | 1 x 400.0 | 1930/0.49 | 32.11 | 4370 | 1000 | 840 | 780 | 0.183 |
| CFX500 | 1 x 500.0 | 2442/0.49 | 35.75 | 5275 | 1168 | 972 | 903 | 0.170 |
| CFX630 | 1 x 630.0 | 3246/0.49 | 40.57 | 6400 | 1382 | 1133 | 1052 | 0.160 |

FLEXIBLE SINGLE CORE CABLES

ALLFLEX INDUSTRIAL MLG2 SINGLE 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 Switchboards, flexible droppers from busbars, transformers and load banks. Also 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*)

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 U_o/U 0.6/1kV.

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

Sheath Colour Black.

Insulation Colour White (Bonded).

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 60092-350 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.

Certification Approvals Lloyds Type Approval CEF/SA.

| Code | No. of Cores x Size (mm ²) | Approx. Stranding No. of Wires x mm | Approx. Overall Diameter +/- 15% (mm) | Approx. Weight (Kg/Km) | Nominal Amps un-enclosed protected from sun @ 30°C fixed installation 3 Phase | | | 3 Phase Volt Drop @50Hz / MAX. Conductor Temp 90°C (Mv/Am) |
|------|--|-------------------------------------|---------------------------------------|------------------------|---|---------------------|----------|--|
| | | | | | Spaced | Spaced from Surface | Touching | |

COMPLIES TO AS/NZS 5000.1, IEC 60092-350 & H07RN-F TYPE

| | | | | | | | | |
|------------------|-----------|----------|-------------|------|-----|-----|-----|-------|
| ML1/10G2 | 1 x 10.0 | 75/0.40 | 9.5 – 11.9 | 221 | 88 | 76 | 70 | 4.050 |
| ML1/16G2 | 1 x 16.0 | 118/0.40 | 10.8 – 13.4 | 296 | 117 | 100 | 94 | 2.550 |
| ML1/25G2 | 1 x 25.0 | 183/0.40 | 12.7 – 15.8 | 422 | 156 | 133 | 125 | 1.620 |
| ML1/35G2 | 1 x 35.0 | 260/0.40 | 14.3 – 17.9 | 553 | 195 | 166 | 155 | 1.170 |
| ML1/50G2 | 1 x 50.0 | 375/0.40 | 16.5 – 20.6 | 762 | 245 | 210 | 196 | 0.872 |
| ML1/70G2 | 1 x 70.0 | 334/0.50 | 18.6 – 23.3 | 991 | 311 | 265 | 248 | 0.615 |
| ML1/95G2 | 1 x 95.0 | 437/0.50 | 20.8 – 26.0 | 1274 | 375 | 319 | 298 | 0.457 |
| ML1/120G2 | 1 x 120.0 | 561/0.50 | 22.8 – 28.6 | 1582 | 447 | 381 | 354 | 0.373 |

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BGL SERIES

Standard Performance Flexible Earth Cable 0.6/1kV 90°C



APPLICATIONS:

Power Extreme flexibility for use in switchboards, flexible droppers from busbars, transformers, load banks or other equipment requiring fixed or flexible earth cable.

Pumping Suitable for permanent submersion to 200 metres.

Welding Suitable for welding and electrode leads.

PRODUCT FEATURES:

- ▶ Water and moisture resistant
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (See Technical Section)

CONSTRUCTION:

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

Insulation SPVC V-90HT.

CHARACTERISTICS:

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

Maximum Conductor Temperature 105°C.

Rated Voltage U_o/U 0.6/1kV.

Max AC Operating Voltage U_o 0.7kV.

Minimum Bending Radius Fixed 4 x cable diameter / Flexing 5 x cable diameter.

Sheath Colour Green / Yellow.

Relevant Standards IEC 60332-1, AS/NZS 5000.1, AS/NZS 3808, AS/NZS 1125, **RoHS** Compliant.

| Code | No. of Cores x Size (mm ²) | Approx. Overall Diameter (mm) | Approx. Weight (Kg/Km) |
|--------|---|----------------------------------|---------------------------|
| BGL006 | 1 x 6.0 | 4.7 | 102 |
| BGL010 | 1 x 10.0 | 6.2 | 149 |
| BGL016 | 1 x 16.0 | 7.3 | 214 |
| BGL025 | 1 x 25.0 | 9.0 | 321 |
| BGL035 | 1 x 35.0 | 10.2 | 423 |
| BGL050 | 1 x 50.0 | 12.0 | 584 |
| BGL070 | 1 x 70.0 | 13.9 | 790 |
| BGL095 | 1 x 95.0 | 16.0 | 1028 |
| BGL120 | 1 x 120.0 | 18.0 | 1287 |
| BGL150 | 1 x 150.0 | 21.3 | 1500 |
| BGL185 | 1 x 185.0 | 22.1 | 1706 |
| BGL240 | 1 x 240.0 | 24.7 | 2235 |
| BGL300 | 1 x 300.0 | 27.5 | 2781 |
| BGL400 | 1 x 400.0 | 30.9 | 3613 |
| BGL500 | 1 x 500.0 | 34.3 | 4603 |
| BGL630 | 1 x 630.0 | 38.9 | 6101 |

FLEXIBLE SINGLE CORE CABLES

MST SERIES

High Performance Flexible
Appliance / Marine Wire 0.6/1kV 90°C



APPLICATIONS:

Power Flexible thermal insulated wire suitable for switchboard wiring, motors and transformers.

Marine Tinned copper conductors for boat wiring and other marine applications.

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

PRODUCT FEATURES:

- ▶ Tinned fine stranded copper conductor
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Metre marked for better length control
- ▶ Oil and chemical resistant (See Technical Section)

CONSTRUCTION:

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

Insulation SPVC V-90HT.

CHARACTERISTICS:

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

Maximum Conductor Temperature 105°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

Rated Voltage Uo/U 0.6/1kV.

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

Insulation Colour

0.5 - 4.0mm² Black, Blue, Brown, Green/Yellow, Grey, Orange, Pink, Red, Violet, White, Yellow.

6.0 - 16.0mm² Black, Blue, Green/Yellow, Red, White.

Relevant Standards IEC 60228, IEC 60332-1, AS/NZS 3808, AS/NZS 3008.1, AS/NZS 3191, AS/NZS 1125, AS/NZS 5000.1, **CE** Directive 2006/95/EC, **RoHS** Compliant.

| Code | No. of Cores x Size (mm ²) | Approx. Stranding No. of wires x mm | Approx. Overall Diameter (mm) | Approx. Weight (Kg/Km) | Nominal Amps enclosed protected from sun @ 30°C fixed application | | 3 Phase Volt Drop @50Hz / MAX. Conductor Temp: 90°C (Mv/Am) |
|-----------|--|-------------------------------------|-------------------------------|------------------------|---|--|---|
| | | | | | In Duct or Cabinet | | |
| MST000.50 | 1 x 0.50 | 16/0.20 | 2.5 | 10 | 7 | | 86.100 |
| MST000.75 | 1 x 0.75 | 24/0.20 | 2.8 | 15 | 10 | | 52.936 |
| MST001.0 | 1 x 1.0 | 32/0.20 | 2.9 | 17 | 15 | | 46.800 |
| MST001.5 | 1 x 1.5 | 30/0.25 | 3.4 | 20 | 17 | | 30.000 |
| MST002.5 | 1 x 2.5 | 50/0.25 | 4.1 | 32 | 23 | | 16.400 |
| MST004 | 1 x 4.0 | 56/0.30 | 4.8 | 50 | 31 | | 10.200 |
| MST006 | 1 x 6.0 | 84/0.30 | 5.3 | 70 | 39 | | 6.810 |
| MST010 | 1 x 10.0 | 80/0.40 | 6.8 | 116 | 52 | | 4.050 |
| MST016 | 1 x 16.0 | 128/0.40 | 8.1 | 177 | 70 | | 2.550 |

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