

CONTROL CABLES

| | |
|-----------------------|----|
| CT Series..... | 80 |
| CTP Series | 82 |
| CTP-H Series | 84 |
| MLCON-G2 Series | 85 |
| JT Series | 86 |
| JC Series..... | 88 |
| VC Series | 89 |
| JFOB Series | 90 |
| JTCY Series..... | 91 |
| CTCY Series | 92 |
| JFCY Series..... | 93 |
| JFCY-H Series | 94 |



CT SERIES

Ultra Performance Flexible Rubber Control Cable 300/500V 80°C



APPLICATIONS:

Control and Signals For use on machines, portable tools, conveying equipment and other industrial applications. These cables are flexible for fixed installation as well as occasional flexing without tensile load.

Harsh Environments With its high flexibility, durable SER sheath and excellent resistance to oil, heat, abrasion, ozone, solvents and UV stabilisation, this cable is suited to harsh industrial environments.

Lighting & Entertainment With its extra durable SER sheath, this cable is suitable for indoor/outdoor lighting and control leads.

PRODUCT FEATURES:

- ▶ Extremely fine stranded copper conductor
- ▶ UV stabilised
- ▶ Resistant to environmental factors like ozone
- ▶ Flame retardant
- ▶ Extreme flexibility
- ▶ Highly flexible, tough and durable with resistance to abrasion
- ▶ Extensive heat, oil, solvent and chemical resistance (See *Technical Section*)

CONSTRUCTION:

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

Insulation V-75.

Sheath SER 90.

CHARACTERISTICS:

Operating Temperature Range Fixed -20°C to 80°C / Flexing -5°C to 75°C.

Maximum Conductor Temperature 80°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

Rated Voltage U_o/U 300/500v

Max AC Operating Voltage U_o 318v.

Minimum Bending Radius Fixed 5 x cable diameter / Flexing 15 x cable diameter.

Sheath Colour Grey – as standard colour / Black – in some sizes subject to availability (marked B).

Standard Core Colours White (numbered) plus 1 Green/Yellow Earth.

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

See over for full product table ▶

CT SERIES continued

| Code | No. of Cores x Size | Approx. Stranding | Approx. Overall Diameter | Approx. Weight |
|------------|------------------------|----------------------|-----------------------------|-------------------|
| | (mm ²) | No. of wires x mm | (mm) | (Kg/Km) |
| CT02/0.5 | 2 x 0.5 | 16/0.20 | 4.8 | 35 |
| CT03/0.5 | 3 x 0.5 | 16/0.20 | 5.1 | 42 |
| CT04/0.5 | 4 x 0.5 | 16/0.20 | 5.7 | 54 |
| CT05/0.5 | 5 x 0.5 | 16/0.20 | 6.6 | 67 |
| CT07/0.5 | 7 x 0.5 | 16/0.20 | 7.0 | 84 |
| CT12/0.5 | 12 x 0.5 | 16/0.20 | 9.4 | 131 |
| CT18/0.5 | 18 x 0.5 | 16/0.20 | 11.1 | 192 |
| CT25/0.5 | 25 x 0.5 | 16/0.20 | 12.4 | 261 |
| CT30/0.5 | 30 x 0.5 | 16/0.20 | 13.3 | 304 |
| CT41/0.5 | 41 x 0.5 | 16/0.20 | 16.6 | 450 |
| CT03/0.75 | 3 x 0.75 | 24/0.20 | 6.0 | 63 |
| CT04/0.75 | 4 x 0.75 | 24/0.20 | 6.2 | 64 |
| CT05/0.75 | 5 x 0.75 | 24/0.20 | 7.1 | 88 |
| CT07/0.75 | 7 x 0.75 | 24/0.20 | 7.6 | 110 |
| CT12/0.75 | 12 x 0.75 | 24/0.20 | 10.5 | 200 |
| CT18/0.75 | 18 x 0.75 | 24/0.20 | 12.2 | 268 |
| CT25/0.75 | 25 x 0.75 | 24/0.20 | 15.0 | 365 |
| CT02/1.0 | 2 x 1.0 | 32/0.20 | 6.0 | 64 |
| CT03/1.0 | 3 x 1.0 | 32/0.20 | 6.1 | 66 |
| CT04/1.0 | 4 x 1.0 | 32/0.20 | 6.5 | 79 |
| CT05/1.0 | 5 x 1.0 | 32/0.20 | 7.6 | 105 |
| CT07/1.0 | 7 x 1.0 | 32/0.20 | 8.0 | 131 |
| CT12/1.0 | 12 x 1.0 | 32/0.20 | 11.1 | 220 |
| CT18/1.0 | 18 x 1.0 | 32/0.20 | 13.4 | 315 |
| CT25/1.0 | 25 x 1.0 | 32/0.20 | 15.4 | 449 |
| CT36/1.0 | 36 x 1.0 | 32/0.20 | 18.2 | 620 |
| CT41/1.0 | 41 x 1.0 | 32/0.20 | 18.8 | 660 |
| CT03/1.5 | 3 x 1.5 | 48/0.20 | 6.7 | 84 |
| CT04/1.5 | 4 x 1.5 | 48/0.20 | 8.3 | 121 |
| CT05/1.5 | 5 x 1.5 | 48/0.20 | 8.7 | 144 |
| CT07/1.5 | 7 x 1.5 | 48/0.20 | 10.3 | 237 |
| CT12/1.5 | 12 x 1.5 | 48/0.20 | 13.8 | 393 |
| CT19/1.5 | 19 x 1.5 | 48/0.20 | 16.4 | 542 |
| CT25/1.5 B | 25 x 1.5 | 48/0.20 | 19.0 | 655 |
| CT30/1.5 B | 30 x 1.5 | 48/0.20 | 20.5 | 750 |
| CT37/1.5 B | 37 x 1.5 | 48/0.20 | 24.5 | 980 |
| CT50/1.5 | 50 x 1.5 | 48/0.20 | 26.5 | 1224 |
| CT04/2.5 B | 4 x 2.5 | 80/0.20 | 11.0 | 192 |
| CT07/2.5 B | 7 x 2.5 | 80/0.20 | 13.0 | 310 |
| CT12/2.5 B | 12 x 2.5 | 80/0.20 | 18.0 | 524 |
| CT18/2.5 B | 18 x 2.5 | 80/0.20 | 21.0 | 784 |
| CT27/2.5 B | 27 x 2.5 | 80/0.20 | 26.0 | 900 |

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.

CONTROL CABLES

CTP SERIES

Standard Performance Flexible
Control Cable 300/500V 80°C



APPLICATIONS:

Control and Signals For use on machines, portable tools, conveying equipment and other industrial applications. These cables are flexible for fixed installation as well as occasional flexing without tensile load.

Lighting & Entertainment With its special flexible PVC sheath, this cable is suitable for indoor lighting and control leads.

PRODUCT FEATURES:

- ▶ Fine stranded copper conductor
- ▶ High flexibility
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ High flexibility with stranding to VDE 0295 Class 5 & 6
- ▶ 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 SPVC 75.

Sheath SPVC 75.

CHARACTERISTICS:

Operating Temperature Range Fixed -20°C to 80°C / Flexing -5°C to 80°C

Maximum Conductor Temperature 80°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

Rated Voltage U_o/U 300/500v.

Max AC Operating Voltage U_o 318v.

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

Sheath Colour Grey – as standard colour.

Standard Core Colours Black (numbered) plus 1 Green/Yellow Earth

Relevant Standards DIN VDE 0295, IEC 60332-1, AS/NZS 3808,

RoHS Compliant.

CTP SERIES continued

| Code | No. of Cores x Size | Approx. Stranding | Approx. Overall Diameter | Approx. Weight |
|------------|------------------------|----------------------|-----------------------------|-------------------|
| | (mm ²) | No. of wires x mm | (mm) | (Kg/Km) |
| CTP02/0.5 | 2 x 0.5 | 16/0.20 | 4.9 | 40 |
| CTP03/0.5 | 3 x 0.5 | 16/0.20 | 5.1 | 42 |
| CTP04/0.5 | 4 x 0.5 | 16/0.20 | 5.7 | 54 |
| CTP05/0.5 | 5 x 0.5 | 16/0.20 | 6.2 | 63 |
| CTP07/0.5 | 7 x 0.5 | 16/0.20 | 6.7 | 81 |
| CTP12/0.5 | 12 x 0.5 | 16/0.20 | 8.9 | 131 |
| CTP18/0.5 | 18 x 0.5 | 16/0.20 | 10.5 | 188 |
| CTP25/0.5 | 25 x 0.5 | 16/0.20 | 12.5 | 261 |
| CTP02/0.75 | 2 x 0.75 | 24/0.20 | 5.3 | 46 |
| CTP03/0.75 | 3 x 0.75 | 24/0.20 | 5.7 | 55 |
| CTP04/0.75 | 4 x 0.75 | 24/0.20 | 6.2 | 66 |
| CTP05/0.75 | 5 x 0.75 | 24/0.20 | 6.7 | 79 |
| CTP07/0.75 | 7 x 0.75 | 24/0.20 | 7.3 | 101 |
| CTP12/0.75 | 12 x 0.75 | 24/0.20 | 10.0 | 171 |
| CTP18/0.75 | 18 x 0.75 | 24/0.20 | 11.8 | 244 |
| CTP25/0.75 | 25 x 0.75 | 24/0.20 | 13.8 | 337 |
| CTP02/1.0 | 2 x 1.0 | 32/0.20 | 5.8 | 60 |
| CTP03/1.0 | 3 x 1.0 | 32/0.20 | 6.0 | 65 |
| CTP04/1.0 | 4 x 1.0 | 32/0.20 | 6.5 | 79 |
| CTP05/1.0 | 5 x 1.0 | 32/0.20 | 7.1 | 94 |
| CTP07/1.0 | 7 x 1.0 | 32/0.20 | 8.0 | 126 |
| CTP12/1.0 | 12 x 1.0 | 32/0.20 | 10.5 | 205 |
| CTP18/1.0 | 18 x 1.0 | 32/0.20 | 12.7 | 300 |
| CTP25/1.0 | 25 x 1.0 | 32/0.20 | 14.7 | 408 |
| CTP02/1.5 | 2 x 1.5 | 48/0.20 | 6.4 | 70 |
| CTP03/1.5 | 3 x 1.5 | 48/0.20 | 6.7 | 84 |
| CTP04/1.5 | 4 x 1.5 | 48/0.20 | 7.2 | 104 |
| CTP05/1.5 | 5 x 1.5 | 48/0.20 | 8.1 | 128 |
| CTP07/1.5 | 7 x 1.5 | 48/0.20 | 9.0 | 166 |
| CTP12/1.5 | 12 x 1.5 | 48/0.20 | 12.0 | 279 |
| CTP18/1.5 | 18 x 1.5 | 48/0.20 | 14.4 | 407 |
| CTP25/1.5 | 25 x 1.5 | 48/0.20 | 17.0 | 560 |
| CTP04/2.5 | 4 x 2.5 | 80/0.20 | 9.2 | 178 |
| CTP07/2.5 | 7 x 2.5 | 80/0.20 | 11.2 | 306 |
| CTP12/2.5 | 12 x 2.5 | 80/0.20 | 14.8 | 498 |
| CTP18/2.5 | 18 x 2.5 | 80/0.20 | 18.0 | 764 |

CTP-H SERIES

High Performance Flexible LSHF
Control Cable 300/500V 90°C



APPLICATIONS:

Marine Flexible LSHF tinned copper control cable for installation in superyachts, pleasure craft and other marine applications.

Control and Signals Suitable for use on machines, portable tools, conveying equipment and other industrial applications. These cables are flexible for fixed installation as well as occasional flexing without tensile load.

Lighting & Entertainment With its special flexible low smoke halogen free sheath, this cable is suitable for indoor/outdoor lighting and control leads.

Rail or Rolling Stock Suitable for wiring in locomotives, rail cars, buses and coaches.

Pumping Suitable for use as submersible (200 metres) pump controls.

PRODUCT FEATURES:

- ▶ Tinned fine stranded copper conductor
- ▶ High flexibility
- ▶ Low smoke halogen free
- ▶ PVC free
- ▶ Submersible to 200 metres
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Extreme flexibility
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

CONSTRUCTION:

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

Insulation LSHF X-90.

Sheath LSHF X-90.

CHARACTERISTICS:

Operating Temperature Range Fixed -40 to 90°C / Flexing -5 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

Max AC Operating Voltage U_o 318v.

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

Sheath Colour Grey - as standard colour.

Standard Core Colours Black (numbered) plus 1 Green/Yellow earth.

Relevant Standards DIN VDE 0295, IEC 61034, IEC 60332-1, IEC 60754-1, IEC 60754-2, **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) |
|-------------|----------------------------------------------|----------------------------------------------|-------------------------------------|------------------------------|
| CTP02/0.75H | 2 x 0.75 | 24/0.20 | 5.1 | 46 |
| CTP03/0.75H | 3 x 0.75 | 24/0.20 | 5.6 | 55 |
| CTP04/0.75H | 4 x 0.75 | 24/0.20 | 6.2 | 66 |
| CTP05/0.75H | 5 x 0.75 | 24/0.20 | 7.1 | 79 |
| CTP07/0.75H | 7 x 0.75 | 24/0.20 | 7.5 | 101 |
| CTP12/0.75H | 12 x 0.75 | 24/0.20 | 10.5 | 171 |
| CTP18/0.75H | 18 x 0.75 | 24/0.20 | 12.2 | 244 |
| CTP02/1.5H | 2 x 1.5 | 48/0.20 | 6.4 | 78 |
| CTP03/1.5H | 3 x 1.5 | 48/0.20 | 7.1 | 84 |
| CTP04/1.5H | 4 x 1.5 | 48/0.20 | 8.3 | 104 |
| CTP05/1.5H | 5 x 1.5 | 48/0.20 | 8.7 | 128 |
| CTP07/1.5H | 7 x 1.5 | 48/0.20 | 10.0 | 166 |
| CTP12/1.5H | 12 x 1.5 | 48/0.20 | 13.0 | 279 |
| CTP18/1.5H | 18 x 1.5 | 48/0.20 | 15.5 | 407 |

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MLCON-G2 SERIES

Ultra Performance Flexible Rubber
Industrial / Marine Cable 0.6/1kV 90°C,
IEC 60092



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*)

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 U₀/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 Numbers + Green/Yellow

Relevant Standards DIN VDE 0295, DIN VDE 0165, IEC 60092-360 IEC 60092-353, IEC 60092-359, IEC 60092-351, 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.

Certification Approvals Lloyds Type Approval CEF/SA.

| 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 ²) | No. of wires x mm | (mm) | (Kg/Km) | Touching  | 90°C (Mv/Am) |
| MLCON03/1.0BKG2 | 3 x 1.0 | 32 x 0.20 | 10.1 | 128 | 18 | 46.800 |
| MLCON04/1.0BKG2 | 4 x 1.0 | 32 x 0.20 | 11.0 | 160 | 16 | 46.800 |
| MLCON05/1.0BKG2 | 5 x 1.0 | 32 x 0.20 | 12.1 | 172 | 14 | 46.800 |
| MLCON07/1.0BKG2 | 7 x 1.0 | 32 x 0.20 | 12.8 | 191 | 12 | 46.800 |
| MLCON12/1.0BKG2 | 12 x 1.0 | 32 x 0.20 | 16.9 | 287 | 12 | 46.800 |
| MLCON19/1.0BKG2 | 19 x 1.0 | 32 x 0.20 | 20.2 | 432 | 12 | 46.800 |

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JT SERIES

Standard Performance Flexible
Control Cable Coloured Cores
300/500V 80°C



APPLICATIONS:

Control and Signals For use on machines, portable tools, conveying equipment and other industrial applications. These cables are flexible for fixed installation as well as occasional flexing without tensile load.

Coloured Cores For applications where coloured cores are required.

PRODUCT FEATURES:

- ▶ 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 75.

Sheath SPVC 75.

CHARACTERISTICS:

Operating Temperature Range Fixed -20°C to 80°C / Flexing -5°C to 80°C.

Maximum Conductor Temperature 80°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

Rated Voltage U_o/U 300/500v.

Max AC Operating Voltage U_o 318v.

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

Sheath Colour Grey.

Standard Core Colours To DIN 47100 without repetition.

Cores 1 to 12 are: White, Brown, Green, Yellow, Grey, Pink, Blue, Red, Black, Violet, Grey-Pink, Red-Blue.

Inductance Approx 0.65 mH/Km.

Insulation Resistance Min. 20Ω x km.

Capacitance 120 nF/km.

Impedance Approx 78 OHM.

Relevant Standards VDE 0245, VDE 0250, DIN 47100, IEC 60332-1, IEC 60228, **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) |
|-----------|--------------------------------------------------|--------------------------------------------------|-----------------------------------------|----------------------------------|
| JT02/0.25 | 2 x 0.25 | 14/0.15 | 3.8 | 18 |
| JT03/0.25 | 3 x 0.25 | 14/0.15 | 3.9 | 22 |
| JT04/0.25 | 4 x 0.25 | 14/0.15 | 4.3 | 26 |
| JT07/0.25 | 7 x 0.25 | 14/0.15 | 5.2 | 42 |
| JT12/0.25 | 12 x 0.25 | 14/0.15 | 6.7 | 66 |



ON ALL FIRSTFLEX STOCKED CABLES

YES - THAT MEANS FROM 0.22mm² TO 500mm²



CONTROL CABLES

JC SERIES

Standard Performance Flexible
Control Cable Coloured Cores
300/500V 80°C



APPLICATIONS:

Control and Signals For use on machines, portable tools, conveying equipment and other industrial applications. These cables are flexible for fixed installation as well as occasional flexing without tensile load.

Coloured Cores For applications where coloured cores are required.

PRODUCT FEATURES:

- ▶ High flexibility
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

CONSTRUCTION:

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

Insulation SPVC 75.

Sheath SPVC 75.

CHARACTERISTICS:

Operating Temperature Range Fixed -20°C to 80°C / Flexing -5°C to 80°C.

Maximum Conductor Temperature 80°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

Rated Voltage U_o/U 300/500v.

Max AC Operating Voltage U_o 318v.

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

Sheath Colour Grey.

Standard Core Colours

Cores 1 to 7: Green/Yellow, White, Brown, Grey, Blue, Red, Black.

Cores 8 to 12: Violet, Pink, Orange, Clear, Beige.

Relevant Standards IEC 60228, DIN VDE 0295, DIN VDE 0281-1, DIN VDE 0293, DIN VDE 0245, IEC 60332-1,

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) |
|-----------|--------------------------------------------------|--------------------------------------------------|-----------------------------------------|----------------------------------|
| JC07/0.75 | 7 x 0.75 | 24/0.20 | 8.1 | 110 |
| JC12/0.75 | 12 x 0.75 | 24/0.20 | 9.9 | 179 |

VC SERIES

Standard Performance Flexible
Valve Control Cable
300/500V 90°C



APPLICATIONS:

Dairy Used for valve cables in dairy factory applications.

PRODUCT FEATURES:

- ▶ Fine stranded 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 V-90.

Sheath SPVC 5V-90.

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_o/U 300/500v.

Max AC Operating Voltage U_o 318v.

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

Sheath Colour Black.

Standard Core Colour

6 core – Brown, Black, Red, White, Grey, Blue.

8 core – Brown, Black, Red, White, Grey, Blue, Purple, Green/Yellow.

9 Core – Brown, Black, Red, White, Grey, Blue, Purple, Pink, Orange.

Relevant Standards AS/NZS 3808, AS/NZS 3008, IEC 60332-1,

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) |
|-----------|--------------------------------------------------|--------------------------------------------------|-----------------------------------------|----------------------------------|
| VC06/0.25 | 6 x 0.25 | 14/0.15 | 5.1 | 46 |
| VC06/0.5 | 6 x 0.50 | 16/0.20 | 6.9 | 65 |
| VC08/0.5 | 8 x 0.50 | 16/0.20 | 8.1 | 84 |
| VC09/0.5 | 9 x 0.50 | 16/0.20 | 8.6 | 93 |

JFOB SERIES

Standard Performance Flexible Control Cable Coloured Cores (no Earth) 300/500V 80°C



APPLICATIONS:

Control and Signals For use on machines, portable tools, conveying equipment and other industrial applications. These cables are flexible for fixed installation as well as occasional flexing without tensile load.

Coloured Cores For applications where coloured cores are required.

PRODUCT FEATURES:

- ▶ High flexibility
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

CONSTRUCTION:

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

Insulation PVC V-75.

Sheath SPVC 75.

CHARACTERISTICS:

Operating Temperature Range Fixed -20°C to 80°C / Flexing -5°C to 80°C.

Maximum Conductor Temperature 80°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

Rated Voltage U_o/U 300/500v.

Max AC Operating Voltage U_o 318v.

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

Sheath Colour Grey.

Standard Core Colours Black, Brown, Grey (no earth).

Relevant Standards IEC 60228, DIN VDE 0295, DIN VDE 0281-1, DIN VDE 0293, DIN VDE 0245, IEC 60332-1,

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) |
|------------|-------------------------------------------|----------------------------------------|----------------------------------|---------------------------|
| JFOB03/0.5 | 3 x 0.5 | 16/0.20 | 5.1 | 46 |
| JFOB03/1.5 | 3 x 1.5 | 48/0.20 | 6.7 | 90 |

JTCY SERIES

Standard Performance Flexible
CBS Control Cable Coloured Cores
300/500V 80°C



APPLICATIONS:

Control and Signals For use on machines, portable tools, conveying equipment and other industrial applications requiring screened cables for EMC. These cables are flexible for fixed installation as well as occasional flexing without tensile load.

Coloured Cores For applications where coloured cores are required.

PRODUCT FEATURES:

- ▶ High flexibility
- ▶ Prevents external interference
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ To be earthed using EMC compatible glands
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

CONSTRUCTION:

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

Insulation SPVC V-75.

Screening Tinned copper braid 85% coverage.

Sheath SPVC 75.

CHARACTERISTICS:

Operating Temperature Range Fixed -20°C to 80°C / Flexing -5°C to 80°C.

Maximum Conductor Temperature 80°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

Rated Voltage U_o/U 300/500v.

Max AC Operating Voltage U_o 318v.

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

Sheath Colour Grey.

Standard Core Colours To DIN 47100 without repetition.

Cores 1 to 12 – White, Brown, Green, Yellow, Grey, Pink, Blue, Red, Black, Violet, Grey/Pink, Red/Blue.

Inductance Approx 0.65 mH/Km.

Insulation Resistance Min. 200 MOHM x km.

Capacitance @ 800 Hz (pF/m) core/core 150 approx. core/screen 270 approx.

Impedance Approx 78 OHM.

Relevant Standards DIN VDE 0295, IEC 60228, DIN VDE 0281-1, DIN VDE 0293, IEC 60332-1, DIN VDE 0472-804, **RoHS** Compliant.

| Code | No. of Cores x Size | Approx. Stranding | Approx. Overall Diameter | Approx. Weight |
|-------------|------------------------|----------------------|-----------------------------|-------------------|
| | (mm ²) | No. of wires x mm | (mm) | (Kg/Km) |
| JTCY02/0.25 | 2 x 0.25 | 14/0.15 | 4.3 | 31 |
| JTCY03/0.25 | 3 x 0.25 | 14/0.15 | 4.5 | 36 |
| JTCY04/0.25 | 4 x 0.25 | 14/0.15 | 4.9 | 40 |
| JTCY07/0.25 | 7 x 0.25 | 14/0.15 | 5.9 | 64 |
| JTCY12/0.25 | 12 x 0.25 | 14/0.15 | 7.3 | 90 |

CONTROL CABLES

CTCY SERIES

Ultra Performance Flexible Rubber
CBS Control Cable 300/500V 80°C



APPLICATIONS:

Control and Signals For use on machines, portable tools, conveying equipment and other industrial applications requiring screened cables for EMC. These cables are flexible for fixed installation as well as occasional flexing without tensile load.

Harsh Environments With its UV stabilised, high flexibility, durable NBR sheath and excellent resistance to oil, heat, abrasion, ozone and solvents, this cable is suited to harsh industrial environments.

PRODUCT FEATURES:

- ▶ Extremely fine stranded copper conductor
- ▶ Prevents external interference
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Resistant to environmental factors like ozone
- ▶ Abrasion resistance
- ▶ Extreme flexibility with stranding to VDE 0295 Class 5 & 6
- ▶ To be earthed using EMC compatible glands
- ▶ Extensive heat, oil, solvent and chemical resistance (See *Technical Section*)

CONSTRUCTION:

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

Insulation V-75.

Screening Tinned copper braid 85% minimum coverage.

Inner Sheath SER 90.

Sheath SER 90.

CHARACTERISTICS:

Operating Temperature Range Fixed -20 to 80°C / Flexing -5 to 80°C.

Maximum Conductor Temperature 80°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

Rated Voltage U_o/U 300/500v.v

Max AC Operating Voltage U_o 318v.

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

Sheath Colour Black.

Standard Core Colours White (numbered) plus 1 Green/Yellow Earth.

Relevant Standards IEC 60332-1, AS/NZS 1125, AS/NZS 3808, **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) |
|--------------------|--------------------------------------------------|--------------------------------------------------|-----------------------------------------|----------------------------------|
| CTCY03/0.75 | 3 x 0.75 | 24/0.20 | 9.1 | 131 |
| CTCY07/0.75 | 7 x 0.75 | 24/0.20 | 11.5 | 201 |
| CTCY12/0.75 | 12 x 0.75 | 24/0.20 | 14.8 | 335 |
| CTCY18/0.75 | 18 x 0.75 | 24/0.20 | 15.6 | 420 |
| CTCY02/1.5 | 2 x 1.5 | 48/0.20 | 10.2 | 168 |
| CTCY07/1.5 | 7 x 1.5 | 48/0.20 | 13.9 | 323 |
| CTCY12/1.5 | 12 x 1.5 | 48/0.20 | 16.8 | 521 |
| CTCY19/1.5 | 19 x 1.5 | 48/0.20 | 20.7 | 705 |
| CTCY07/2.5 | 7 x 2.5 | 80/0.20 | 16.5 | 374 |

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JFCY SERIES

Standard Performance Flexible
CBS Control Cable 300/500V 80°C

APPLICATIONS:

Control and Signals For use on machines, portable tools, conveying equipment and other industrial applications requiring screened cables for EMC. These cables are flexible for fixed installation as well as occasional flexing without tensile load.

PRODUCT FEATURES:

- ▶ High flexibility
- ▶ Prevents external interference
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Resistant to environmental factors like ozone
- ▶ Abrasion resistance
- ▶ To be earthed using EMC compatible glands
- ▶ Extensive heat, oil, solvent and chemical resistance (See *Technical Section*)



CONSTRUCTION:

- Conductor** Annealed plain copper stranded high flexibility (Class 5).
- Insulation** V-75.
- Screening** Tinned copper braid 85% coverage.
- Sheath** SPVC 75.

CHARACTERISTICS:

- Operating Temperature Range** Fixed -20°C to 80°C / Flexing -5°C to 80°C.
- Maximum Conductor Temperature** 80°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).
- Rated Voltage** U_o/U 300/500v.
- Max AC Operating Voltage** U_o 318v.
- Minimum Bending Radius** Fixed 10 x cable diameter / Flexing 15 x cable diameter.
- Sheath Colour** Grey.
- Standard Core Colours** Black (numbered) + 1 Green/Yellow Earth (2 Core is without Earth).
- Relevant Standards** DIN VDE 0295, IEC 60228, DIN VDE 0281-1, DIN VDE 0293, DIN VDE 0245, IEC 60332-1, **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) |
|-------------|----------------------------------------------|----------------------------------------------|-------------------------------------|------------------------------|
| JFCY02/0.75 | 2 x 0.75 | 24/0.20 | 5.7 | 59 |
| JFCY03/0.75 | 3 x 0.75 | 24/0.20 | 6.4 | 66 |
| JFCY04/0.75 | 4 x 0.75 | 24/0.20 | 6.7 | 77 |
| JFCY05/0.75 | 5 x 0.75 | 24/0.20 | 7.2 | 93 |
| JFCY07/0.75 | 7 x 0.75 | 24/0.20 | 8.6 | 130 |
| JFCY12/0.75 | 12 x 0.75 | 24/0.20 | 10.8 | 138 |
| JCFY18/0.75 | 18 x 0.75 | 24/0.20 | 12.5 | 211 |
| JFCY25/0.75 | 25 x 0.75 | 24/0.20 | 15.1 | 280 |
| JFCY02/1.0 | 2 x 1.0 | 32/0.20 | 6.4 | 65 |
| JFCY03/1.0 | 3 x 1.0 | 32/0.20 | 6.7 | 80 |
| JFCY04/1.0 | 4 x 1.0 | 32/0.20 | 7.3 | 98 |
| JFCY05/1.0 | 5 x 1.0 | 32/0.20 | 7.8 | 127 |
| JFCY07/1.0 | 7 x 1.0 | 32/0.20 | 9.1 | 158 |
| JFCY12/1.0 | 12 x 1.0 | 32/0.20 | 11.2 | 260 |
| JFCY02/1.5 | 2 x 1.5 | 30/0.25 | 7.0 | 88 |
| JFCY03/1.5 | 3 x 1.5 | 30/0.25 | 7.6 | 100 |
| JFCY05/1.5 | 5 x 1.5 | 30/0.25 | 9.1 | 160 |
| JFCY07/1.5 | 7 x 1.5 | 30/0.25 | 9.6 | 154 |
| JFCY12/1.5 | 12 x 1.5 | 30/0.25 | 12.9 | 268 |
| JFCY18/1.5 | 18 x 1.5 | 30/0.25 | 15.3 | 373 |
| JFCY25/1.5 | 25 x 1.5 | 30/0.25 | 18.9 | 705 |

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JFCY-H SERIES

High Performance Flexible LSHF
CBS Control Cable 300/500V 80°C



APPLICATIONS:

Marine Flexible LSHF tinned copper control cable for installation in superyachts, pleasure craft and other marine applications.

Control and Signals For use on machines, portable tools, conveying equipment and other industrial applications requiring screened cables for EMC. These cables are flexible for fixed installation as well as occasional flexing without tensile load.

Pumping Suitable for use as submersible (300 metres) pump controls.

PRODUCT FEATURES:

- ▶ Very high flexibility
- ▶ Low smoke halogen free
- ▶ PVC free
- ▶ Submersible to 300 metres
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Resistant to environmental factors like ozone
- ▶ Abrasion resistance
- ▶ To be earthed using EMC compatible glands
- ▶ Extensive heat, oil, solvent and chemical resistance (See *Technical Section*)

CONSTRUCTION:

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

Insulation LSHF X-90.

Screening Tinned copper braid 85% coverage.

Sheath LSHF X-90.

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 U₀/U 300/500v

Max AC Operating Voltage U₀ 318v.

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

Sheath Colour Grey.

Standard Core Colours Black (numbered) + 1 Green/Yellow Earth (2 Core is without Earth).

Relevant Standards IEC 60228, IEC 60754-1, IEC 60754-2, IEC 60332-1, IEC 61034, **RoHS** Compliant.

| Code | No. of Cores x Size | Approx. Stranding | Approx. Overall Diameter | Approx. Weight |
|--------------|------------------------|----------------------|-----------------------------|-------------------|
| | (mm ²) | No. of wires x mm | (mm) | (Kg/Km) |
| JFCY02/0.75H | 2 x 0.75 | 24/0.20 | 6.2 | 59 |
| JFCY03/0.75H | 3 x 0.75 | 24/0.20 | 6.4 | 100 |
| JFCY04/0.75H | 4 x 0.75 | 24/0.20 | 7.1 | 77 |
| JFCY05/0.75H | 5 x 0.75 | 24/0.20 | 7.6 | 93 |
| JFCY07/0.75H | 7 x 0.75 | 24/0.20 | 8.5 | 161 |
| JFCY12/0.75H | 12 x 0.75 | 24/0.20 | 10.7 | 202 |
| JFCY02/1.5H | 2 x 1.5 | 30/0.25 | 7.0 | 88 |
| JFCY03/1.5H | 3 x 1.5 | 30/0.25 | 7.6 | 100 |
| JFCY04/1.5H | 4 x 1.5 | 30/0.25 | 8.2 | 100 |
| JFCY05/1.5H | 5 x 1.5 | 30/0.25 | 9.1 | 160 |
| JFCY07/1.5H | 7 x 1.5 | 30/0.25 | 9.7 | 280 |
| JFCY12/1.5H | 12 x 1.5 | 30/0.25 | 12.6 | 338 |
| JFCY19/1.5H | 19 x 1.5 | 30/0.25 | 15.0 | 508 |
| JFCY25/1.5H | 25 x 1.5 | 30/0.25 | 18.9 | 705 |

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