

3. Industrial - Copper

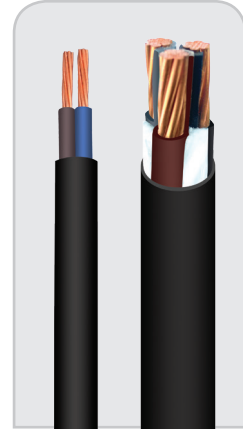
3.2.1

Two & Three Core PVC Insulated and PVC Sheathed Unarmoured - Circular Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

| | | |
|------------------------|----------|------------------------------------------|
| Type | | : Cu/PVC/PVC |
| Standard | | : BS 6346 |
| Nominal Voltage | | : 600/1000V |
| Conductor | | : Class 2 Annealed Copper Wires |
| Insulation | Material | : PVC TI 1 |
| | Colour | : Refer last page - "CABLE CORE COLOURS" |
| Sheathing | Material | : PVC TM 1 |
| | Colour | : Black |



| Nominal Cross Sectional Area | Nominal Insulation Thickness | Nominal Sheathing Thickness | Approx. Overall Diameter | Max. d.c. Resistance at 20 °C | Approx. Weight |
|------------------------------|------------------------------|-----------------------------|--------------------------|-------------------------------|----------------|
| mm ² | mm | mm | mm | Ω/km | kg/km |
| Two Core | | | | | |
| 2 x 1.5 | 0.6 | 1.4 | 8.7 | 12.1 | 91 |
| 2 x 2.5 | 0.7 | 1.4 | 9.9 | 7.41 | 122 |
| 2 x 4 | 0.8 | 1.4 | 11.4 | 4.61 | 167 |
| 2 x 6 | 0.8 | 1.5 | 12.7 | 3.08 | 222 |
| 2 x 10 | 1.0 | 1.6 | 15.6 | 1.83 | 343 |
| 2 x 16 | 1.0 | 1.6 | 17.7 | 1.15 | 479 |
| 2 x 25 | 1.2 | 1.7 | 21.3 | 0.727 | 718 |
| 2 x 35 | 1.2 | 1.8 | 24.0 | 0.524 | 945 |
| Three Core | | | | | |
| 3 x 1.5 | 0.6 | 1.4 | 9.1 | 12.1 | 114 |
| 3 x 2.5 | 0.7 | 1.4 | 10.5 | 7.41 | 158 |
| 3 x 4 | 0.8 | 1.4 | 12.1 | 4.61 | 222 |
| 3 x 6 | 0.8 | 1.5 | 13.5 | 3.08 | 299 |
| 3 x 10 | 1.0 | 1.6 | 16.6 | 1.83 | 469 |
| 3 x 16 | 1.0 | 1.6 | 18.8 | 1.15 | 667 |
| 3 x 25 | 1.2 | 1.7 | 22.8 | 0.727 | 1010 |
| 3 x 35 | 1.2 | 1.8 | 25.6 | 0.524 | 1340 |

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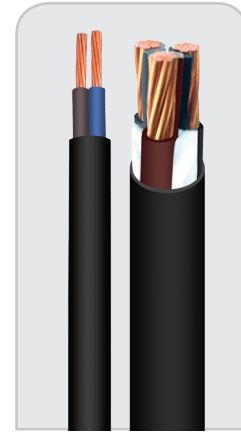
3.2.2

Two & Three Core XLPE Insulated and PVC Sheathed Unarmoured - Circular Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

| | | |
|------------------------|-----------------|------------------------------------------|
| Type | | : Cu/XLPE/PVC |
| Standard | | : BS 5467 |
| Nominal Voltage | | : 600/1000V |
| Conductor | | : Class 2 Annealed Copper Wires |
| Insulation | Material | : XLPE |
| | Colour | : Refer last page - "CABLE CORE COLOURS" |
| Sheathing | Material | : PVC Type 9 |
| | Colour | : Black |



| Nominal Cross Sectional Area | Nominal Insulation Thickness | Nominal Sheathing Thickness | Approx. Overall Diameter | Max. d.c. Resistance at 20 °C | Approx. Weight |
|------------------------------|------------------------------|-----------------------------|--------------------------|-------------------------------|----------------|
| mm ² | mm | mm | mm | Ω/km | kg/km |
| Two Core | | | | | |
| 2 x 1.5 | 0.6 | 1.3 | 8.5 | 12.1 | 82 |
| 2 x 2.5 | 0.7 | 1.4 | 9.9 | 7.41 | 115 |
| 2 x 4 | 0.7 | 1.4 | 11.0 | 4.61 | 152 |
| 2 x 6 | 0.7 | 1.4 | 12.1 | 3.08 | 199 |
| 2 x 10 | 0.7 | 1.5 | 14.2 | 1.83 | 298 |
| 2 x 16 | 0.7 | 1.5 | 16.3 | 1.15 | 427 |
| 2 x 25 | 0.9 | 1.6 | 19.9 | 0.727 | 649 |
| 2 x 35 | 0.9 | 1.7 | 22.6 | 0.524 | 866 |
| Three Core | | | | | |
| 3 x 1.5 | 0.6 | 1.3 | 8.9 | 12.1 | 103 |
| 3 x 2.5 | 0.7 | 1.4 | 10.5 | 7.41 | 147 |
| 3 x 4 | 0.7 | 1.4 | 11.6 | 4.61 | 200 |
| 3 x 6 | 0.7 | 1.4 | 12.9 | 3.08 | 267 |
| 3 x 10 | 0.7 | 1.5 | 15.1 | 1.83 | 407 |
| 3 x 16 | 0.7 | 1.6 | 17.5 | 1.15 | 602 |
| 3 x 25 | 0.9 | 1.7 | 21.5 | 0.727 | 922 |
| 3 x 35 | 0.9 | 1.8 | 24.3 | 0.524 | 1237 |

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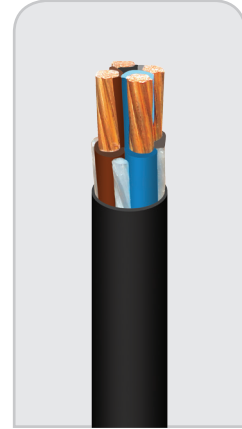
3.3.1

Four Core PVC Insulated and PVC Sheathed Unarmoured - Circular & Shaped Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

| | | |
|------------------------|-----------------|------------------------------------------|
| Type | | : Cu/PVC/PVC |
| Standard | | : BS 6346 |
| Nominal Voltage | | : 600/1000V |
| Conductor | | : Class 2 Annealed Copper Wires |
| Insulation | Material | : PVC TI 1 |
| | Colour | : Refer last page - "CABLE CORE COLOURS" |
| Sheathing | Material | : PVC TM 1 |
| | Colour | : Black |



| Nominal Cross Sectional Area | Nominal Insulation Thickness | Nominal Sheathing Thickness | Approx. Overall Diameter | Max. d.c. Resistance at 20 °C | Approx. Weight |
|------------------------------------|------------------------------|-----------------------------|--------------------------|-------------------------------|----------------|
| mm ² | mm | mm | mm | Ω/km | kg/km |
| Circular Stranded Conductor | | | | | |
| 4 x 1.5 | 0.6 | 1.4 | 9.9 | 12.1 | 140 |
| 4 x 2.5 | 0.7 | 1.4 | 11.4 | 7.41 | 196 |
| 4 x 4 | 0.8 | 1.5 | 13.3 | 4.61 | 286 |
| 4 x 6 | 0.8 | 1.5 | 14.7 | 3.08 | 378 |
| 4 x 10 | 1.0 | 1.6 | 18.1 | 1.83 | 599 |
| 4 x 16 | 1.0 | 1.7 | 20.9 | 1.15 | 869 |
| 4 x 25 | 1.2 | 1.8 | 25.2 | 0.727 | 1321 |
| 4 x 35 | 1.2 | 1.9 | 28.4 | 0.524 | 1754 |
| Shaped Stranded Conductor | | | | | |
| 4 x 35 | 1.2 | 1.9 | 24.1 | 0.524 | 1681 |
| 4 x 50 | 1.4 | 2.0 | 28.2 | 0.387 | 2233 |
| 4 x 70 | 1.4 | 2.1 | 32.0 | 0.268 | 3121 |
| 4 x 95 | 1.6 | 2.2 | 36.6 | 0.193 | 4259 |
| 4 x 120 | 1.6 | 2.4 | 40.4 | 0.153 | 5402 |
| 4 x 150 | 1.8 | 2.5 | 44.7 | 0.124 | 6406 |
| 4 x 185 | 2.0 | 2.6 | 49.3 | 0.0991 | 8071 |
| 4 x 240 | 2.2 | 2.8 | 55.6 | 0.0754 | 10381 |
| 4 x 300 | 2.4 | 3.0 | 61.7 | 0.0601 | 13099 |
| 4 x 400 | 2.6 | 3.3 | 70.3 | 0.0470 | 16204 |

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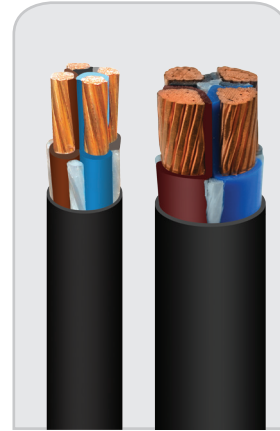
3.3.2

Four Core XLPE Insulated and PVC Sheathed Unarmoured - Circular & Shaped Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

| | | |
|------------------------|-----------------|------------------------------------------|
| Type | | : Cu/XLPE/PVC |
| Standard | | : BS 5467 |
| Nominal Voltage | | : 600/1000V |
| Conductor | | : Class 2 Annealed Copper Wires |
| Insulation | Material | : XLPE |
| | Colour | : Refer last page - "CABLE CORE COLOURS" |
| Sheathing | Material | : PVC Type 9 |
| | Colour | : Black |



| Nominal Cross Sectional Area | Nominal Insulation Thickness | Nominal Sheathing Thickness | Approx. Overall Diameter | Max. d.c. Resistance at 20 °C | Approx. Weight |
|------------------------------------|------------------------------|-----------------------------|--------------------------|-------------------------------|----------------|
| mm ² | mm | mm | mm | Ω/km | kg/km |
| Circular Stranded Conductor | | | | | |
| 4 x 1.5 | 0.6 | 1.3 | 9.6 | 12.1 | 126 |
| 4 x 2.5 | 0.7 | 1.4 | 11.4 | 7.41 | 182 |
| 4 x 4 | 0.7 | 1.4 | 12.6 | 4.61 | 251 |
| 4 x 6 | 0.7 | 1.5 | 14.2 | 3.08 | 345 |
| 4 x 10 | 0.7 | 1.5 | 16.5 | 1.83 | 520 |
| 4 x 16 | 0.7 | 1.6 | 19.2 | 1.15 | 775 |
| 4 x 25 | 0.9 | 1.7 | 23.6 | 0.727 | 1193 |
| 4 x 35 | 0.9 | 1.8 | 26.8 | 0.524 | 1606 |
| Shaped Stranded Conductor | | | | | |
| 4 x 35 | 0.9 | 1.8 | 23.0 | 0.524 | 1549 |
| 4 x 50 | 1.0 | 1.9 | 26.7 | 0.387 | 2048 |
| 4 x 70 | 1.1 | 2.1 | 31.1 | 0.268 | 2939 |
| 4 x 95 | 1.1 | 2.2 | 35.1 | 0.193 | 3982 |
| 4 x 120 | 1.2 | 2.3 | 38.9 | 0.153 | 5097 |
| 4 x 150 | 1.4 | 2.4 | 43.3 | 0.124 | 6047 |
| 4 x 185 | 1.6 | 2.6 | 48.1 | 0.0991 | 7663 |
| 4 x 240 | 1.7 | 2.7 | 53.9 | 0.0754 | 9826 |
| 4 x 300 | 1.8 | 2.9 | 59.6 | 0.0601 | 12402 |
| 4 x 400 | 2.0 | 3.2 | 68.3 | 0.0470 | 15389 |

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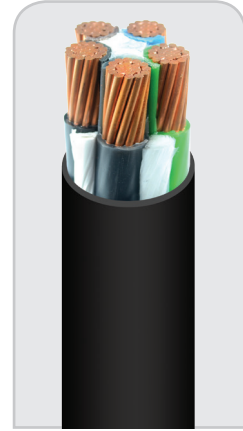
3.4.1

Five Core PVC Insulated and PVC Sheathed Unarmoured - Circular Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

| | | |
|------------------------|-----------------|------------------------------------------|
| Type | | : Cu/PVC/PVC |
| Standard | | : BS 6346 |
| Nominal Voltage | | : 600/1000V |
| Conductor | | : Class 2 Annealed Copper Wires |
| Insulation | Material | : PVC TI 1 |
| | Colour | : Refer last page - "CABLE CORE COLOURS" |
| Sheathing | Material | : PVC TM 1 |
| | Colour | : Black |



| Nominal Cross Sectional Area | Nominal Insulation Thickness | Nominal Sheathing Thickness | Approx. Overall Diameter | Max. d.c. Resistance at 20 °C | Approx. Weight |
|------------------------------|------------------------------|-----------------------------|--------------------------|-------------------------------|----------------|
| mm ² | mm | mm | mm | Ω/km | kg/km |
| 5 x 1.5 | 0.6 | 1.4 | 10.6 | 12.1 | 166 |
| 5 x 2.5 | 0.7 | 1.5 | 12.5 | 7.41 | 240 |
| 5 x 4 | 0.8 | 1.5 | 14.5 | 4.61 | 344 |
| 5 x 6 | 0.8 | 1.6 | 16.2 | 3.08 | 466 |
| 5 x 10 | 1.0 | 1.7 | 20.0 | 1.83 | 740 |
| 5 x 16 | 1.0 | 1.7 | 22.9 | 1.15 | 1063 |
| 5 x 25 | 1.2 | 1.9 | 27.9 | 0.727 | 1635 |
| 5 x 35 | 1.2 | 1.9 | 31.2 | 0.524 | 2157 |
| 5x 50 | 1.4 | 2.1 | 36.1 | 0.387 | 2901 |
| 5 x 70 | 1.4 | 2.2 | 41.2 | 0.268 | 4016 |

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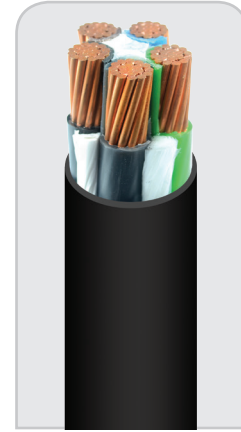
3.4.2

Five Core XLPE Insulated and PVC Sheathed Unarmoured - Circular Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

| | | |
|------------------------|-----------------|------------------------------------------|
| Type | | : Cu/XLPE/PVC |
| Standard | | : BS 5467 |
| Nominal Voltage | | : 600/1000V |
| Conductor | | : Class 2 Annealed Copper Wires |
| Insulation | Material | : XLPE |
| | Colour | : Refer last page - "CABLE CORE COLOURS" |
| Sheathing | Material | : PVC Type 9 |
| | Colour | : Black |



| Nominal Cross Sectional Area | Nominal Insulation Thickness | Nominal Sheathing Thickness | Approx. Overall Diameter | Max. d.c. Resistance at 20 °C | Approx. Weight |
|------------------------------|------------------------------|-----------------------------|--------------------------|-------------------------------|----------------|
| mm ² | mm | mm | mm | Ω/km | kg/km |
| 5 x 1.5 | 0.6 | 1.4 | 10.6 | 12.1 | 154 |
| 5 x 2.5 | 0.7 | 1.4 | 12.3 | 7.41 | 217 |
| 5 x 4 | 0.7 | 1.5 | 13.9 | 4.61 | 309 |
| 5 x 6 | 0.7 | 1.5 | 15.5 | 3.08 | 417 |
| 5 x 10 | 0.7 | 1.6 | 18.2 | 1.83 | 643 |
| 5 x 16 | 0.7 | 1.7 | 21.3 | 1.15 | 958 |
| 5 x 25 | 0.9 | 1.8 | 26.1 | 0.727 | 1478 |
| 5 x 35 | 0.9 | 1.9 | 29.6 | 0.524 | 1990 |
| 5 x 50 | 1.0 | 2.0 | 33.7 | 0.387 | 2648 |
| 5 x 70 | 1.1 | 2.2 | 39.5 | 0.268 | 3762 |