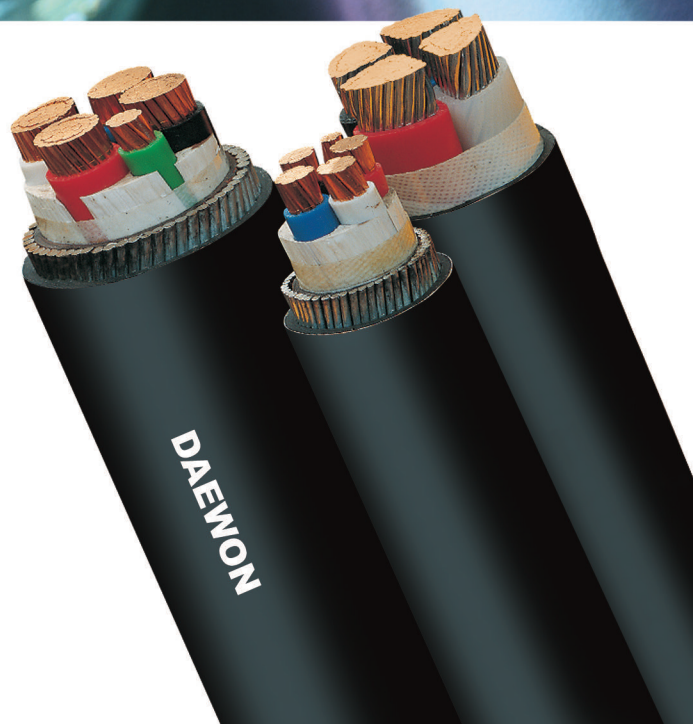


PVC 절연 전력용 케이블

PVC Insulate Power Cable

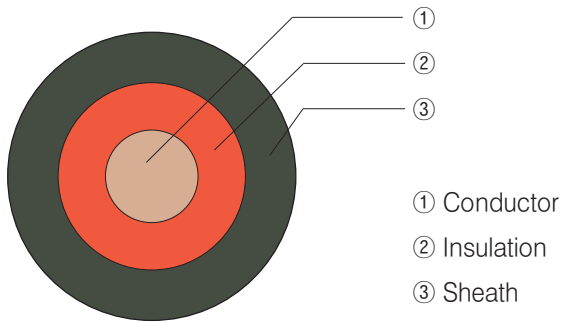
DAEWON CABLE

- Australian Standards AS
- British Standards Institution BSI
- Verband Deutscher Elektrotechniker VDE



PVC Building Wires

AS/NZS 5000



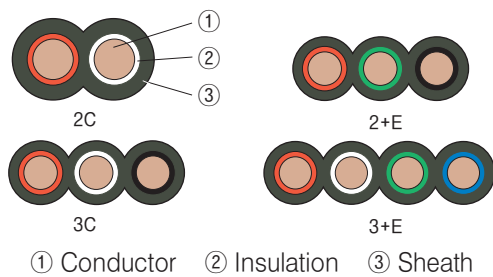
- Rating Voltage : 0.6/1kV
- Max. Conductor Temp. : 75°C
- Construction
- Conductor : Annealed Copper Conductor
- Insulation and Sheath : PVC to AS/NZS 3808
- Color of core Identification : Red or Black
- Color of Sheath : White or Orange
- Specification : AS/NZS 5000

| No of Core | Conductor | | | Thickness of Insulation mm | Thickness of Sheath | Approx. Overall Diameter mm | Max. Conductor Resistance Ω/km | Spark Test kV |
|------------|--|---------------------------|---------------------|----------------------------|---------------------|-----------------------------|--|---------------|
| | Nominal Cross-Sectional Area mm^2 | Number & Diameter of wire | Outside Diameter mm | | | | | |
| 1 | 1.0 | 1/1.13 | 1.13 | 0.8 | 1.4 | 5.7 | 18.1 | 8 |
| | 1.5 | 7/0.50 | 1.5 | 0.8 | 1.4 | 6.0 | 13.6 | 8 |
| | E1.5 | 7/0.50 | 1.5 | 0.6 | 1.4 | 5.6 | 13.6 | 6 |
| | 2.5 | 1/1.78 | 1.78 | 0.8 | 1.4 | 6.3 | 7.28 | 8 |
| | 2.5 | 7/0.67 | 2.01 | 0.8 | 1.4 | 6.5 | 7.41 | 8 |
| | E2.5 | 7/0.67 | 2.01 | 0.7 | 1.4 | 6.3 | 7.41 | 7 |
| | 4 | 7/0.85 | 2.55 | 1.0 | 1.4 | 7.4 | 4.61 | 10 |
| | 6 | 7/1.04 | 3.12 | 1.0 | 1.4 | 8.0 | 3.08 | 10 |
| | 10 | 7/1.35 | 4.05 | 1.0 | 1.4 | 8.9 | 1.83 | 10 |
| | 16 | 7/1.7 | 5.1 | 1.0 | 1.4 | 10.0 | 1.15 | 10 |

(0.6/1kV VV)

PVC Flat Cables

AS/NZS 5000



- Color of core Identification
 2 Core : Red, White(Red, Black or Red, Green/Yellow)
 3 Core : Red, White, Black
 2 Core + E : Red, Green/Yellow, Black
 3 Core + E : Red, White, Green/Yellow, Blue)
- Specification : AS/NZS 5000

| No of Core | Conductor | | | Earth Core | | Insulation | Sheath | Approx. Overall Diameter mm | Max. Conductor Resistance Ω/km | Spark Test kV |
|----------------|--|---------------------------|---------------------|-----------------|----------------------------|----------------------------|------------------------|-----------------------------|--|---------------|
| | Nominal Cross-Sectional Area mm^2 | Number & Diameter of wire | Outside Diameter mm | Nominal Area mm | Thickness of Insulation mm | Thickness of Insulation mm | Thickness of Sheath mm | | | |
| 2C (1C + E) | 1.0 | 1/1.13 | 1.13 | (1.5) | (0.6) | 0.8 | 1.8 | 10.0×7.2 | 18.1 | 8(6) |
| | 1.5 | 7/0.50 | 1.5 | - | - | 0.8 | 1.8 | 10.7×7.6 | 13.6 | 8 |
| | 2.5 | 1/1.78 | 1.78 | - | - | 0.8 | 1.8 | 11.3×7.9 | 7.28 | 8 |
| | 2.5 | 7/0.67 | 2.01 | - | - | 0.8 | 1.8 | 11.7×8.1 | 7.41 | 8 |
| | 4 | 7/0.85 | 2.55 | - | - | 1.0 | 1.8 | 13.7×9.2 | 4.61 | 10 |
| | 6 | 7/1.04 | 3.12 | - | - | 1.0 | 1.8 | 14.9×9.8 | 3.08 | 10 |
| | 10 | 7/1.35 | 4.05 | - | - | 1.0 | 1.8 | 19.0×10.8 | 1.83 | 10 |
| | 16 | 7/1.7 | 5.1 | - | - | 1.0 | 1.8 | 19.0×11.9 | 1.15 | 10 |
| 3C | 1.0 | 1/1.13 | 1.13 | - | - | 0.8 | 1.8 | 12.8×7.3 | 18.1 | 8 |
| | 1.5 | 7/0.50 | 1.5 | - | - | 0.8 | 1.8 | 14.3×7.7 | 13.6 | 8 |
| | 2.5 | 1/1.78 | 1.78 | - | - | 0.8 | 1.8 | 14.7×8.0 | 7.28 | 8 |
| | 2.5 | 7/0.67 | 2.01 | - | - | 0.8 | 1.8 | 15.5×8.3 | 7.41 | 8 |
| | 4 | 7/0.85 | 2.55 | - | - | 1.0 | 1.8 | 18.5×9.4 | 4.61 | 10 |
| | 6 | 7/1.04 | 3.12 | - | - | 1.0 | 1.8 | 20.3×10.0 | 3.08 | 10 |
| | 10 | 7/1.35 | 4.05 | - | - | 1.0 | 1.8 | 23.2×11.1 | 1.83 | 10 |
| | 16 | 7/1.7 | 5.1 | - | - | 1.0 | 1.8 | 26.4×12.2 | 1.15 | 10 |
| 2C + E | 1.0 | 1/1.13 | 1.13 | 1.5 | 0.6 | 0.8 | 1.8 | 12.8×7.3 | 18.1 | 8(6) |
| | 1.5 | 7/0.50 | 1.5 | 1.5 | 0.6 | 0.8 | 1.8 | 13.7×7.7 | 13.6 | 8(6) |
| | 2.5 | 1/1.78 | 1.78 | 2.5 | 0.7 | 0.8 | 1.8 | 14.7×8.0 | 7.28 | 8(7) |
| | 2.5 | 7/0.67 | 2.01 | 2.5 | 0.7 | 0.8 | 1.8 | 15.5×8.3 | 7.41 | 8(7) |
| | 4 | 7/0.85 | 2.55 | 2.5 | 0.7 | 1.0 | 1.8 | 17.2×9.3 | 4.61 | 10(7) |
| | 6 | 7/1.04 | 3.12 | 2.5 | 0.7 | 1.0 | 1.8 | 18.7×9.9 | 3.08 | 10(7) |
| | 10 | 7/1.35 | 4.05 | 4 | 1.0 | 1.0 | 1.8 | 21.6×11.0 | 1.83 | 10(10) |
| | 16 | 7/1.7 | 5.1 | 6 | 1.0 | 1.0 | 1.8 | 24.3×12.1 | 1.15 | 10(10) |
| 3C + E | 1.0 | 1/1.13 | 1.13 | 1.5 | 0.6 | 0.8 | 1.8 | 15.6×7.4 | 18.1 | 8(6) |
| | 1.5 | 7/0.50 | 1.5 | 1.5 | 0.6 | 0.8 | 1.8 | 17.0×7.6 | 13.6 | 8(6) |
| | 2.5 | 1/1.78 | 1.78 | 2.5 | 0.7 | 0.8 | 1.8 | 18.3×8.2 | 7.28 | 8(7) |
| | 2.5 | 7/0.67 | 2.01 | 2.5 | 0.7 | 0.8 | 1.8 | 19.1×8.5 | 7.41 | 8(7) |
| | 4 | 7/0.85 | 2.55 | 2.5 | 0.7 | 1.0 | 1.8 | 22.2×9.3 | 4.61 | 10(7) |
| | 6 | 7/1.04 | 3.12 | 2.5 | 0.7 | 1.0 | 1.8 | 24.0×9.9 | 3.08 | 10(7) |
| | 10 | 7/1.35 | 4.05 | 4 | 1.0 | 1.0 | 1.8 | 27.9×11.3 | 1.83 | 10(10) |
| | 16 | 7/1.7 | 5.1 | 6 | 1.0 | 1.0 | 1.8 | 31.7×12.4 | 1.15 | 10(10) |

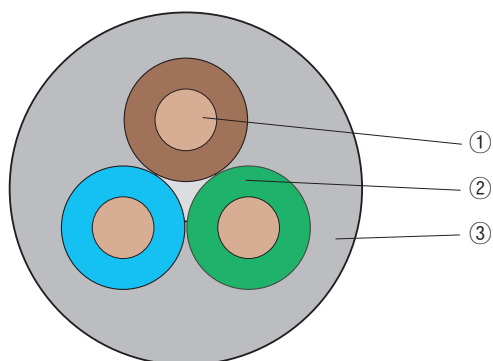
* () Earth Core

(0.6/1kV VV)

250/440V Flexible Cords And Cables

AS/NZS 5000

Copper Conductor – PVC Insulated, Sheatherd, V75



- ① Conductor
- ② Insulation
- ③ Sheath

- Rating Voltage : 250/440V
- Max. Conductor Temp. : 75℃
- Type : Ordinary Duty
- Construction
 - Conductor : Bunched Circular Copper Conductor
 - Insulation and Sheath : PVC to AS/NZS 3808
 - Color for Core Identification
 - 2 Core : Brown, Sky blue
 - 3 Core : Brown, Sky blue, Green/Yellow
 - 4 Core : Brown, Black, Sky blue, Green/Yellow
 - 5 Core : Brown, Black, White, Sky blue, Green/Yellow
 - Color of Sheath : Grey or Orange
- Specification : AS/NZS 5000

| No of Core | Conductor | | | Thickness of Insulation mm | Thickness of Sheath mm | Approx. Overall diameter mm | Approx. Weight kg/100m | Max. conductor resistance (20℃) Ω/km | Insulation resistance constant (Ki) MΩ-km | | Spark test on core mm | High voltage test kV/5min |
|---------------|----------------------------------|---------------------------------|---------------------|----------------------------|------------------------|-----------------------------|------------------------|--------------------------------------|---|------|-----------------------|---------------------------|
| | Nominal Cross-Sectional Area mm² | Number & Diameter of wire No/mm | Outside Diameter mm | | | | | | 20℃ | 75℃ | | |
| 2 | 0.75 | 24/0.2 | 1.13 | 0.6 | 0.8 | 7.0 | 6 | 26.0 | 40 | 0.02 | 6 | 3.5 |
| | 1.0 | 32/0.2 | 1.31 | 0.6 | 0.8 | 7.2 | 7 | 19.5 | 40 | 0.02 | 6 | 3.5 |
| | 1.5 | 30/0.25 | 1.58 | 0.7 | 0.8 | 8.2 | 9 | 13.3 | 40 | 0.02 | 7 | 3.5 |
| | 2.5 | 50/0.25 | 2.04 | 0.8 | 1.0 | 10.1 | 14 | 7.98 | 40 | 0.02 | 8 | 3.5 |
| | 4.0 | 56/0.3 | 2.59 | 0.8 | 1.0 | 11.1 | 19 | 4.95 | 40 | 0.02 | 8 | 3.5 |
| 3 (2C + E) | 0.75 | 24/0.2 | 1.13 | 0.6 | 0.8 | 7.4 | 7 | 26.0 | 40 | 0.02 | 6 | 3.5 |
| | 1.0 | 32/0.2 | 1.31 | 0.6 | 0.8 | 7.6 | 8 | 19.5 | 40 | 0.02 | 6 | 3.5 |
| | 1.5 | 30/0.25 | 1.58 | 0.7 | 0.9 | 8.9 | 11 | 13.3 | 40 | 0.02 | 7 | 3.5 |
| | 2.5 | 50/0.25 | 2.04 | 0.8 | 1.1 | 10.9 | 17 | 7.98 | 40 | 0.02 | 8 | 3.5 |
| | 4.0 | 56/0.3 | 2.59 | 0.8 | 1.1 | 12.1 | 24 | 4.95 | 40 | 0.02 | 8 | 3.5 |
| 4 (3C + E) | 0.75 | 24/0.2 | 1.13 | 0.6 | 0.8 | 8.0 | 8 | 26.0 | 40 | 0.02 | 6 | 3.5 |
| | 1.0 | 32/0.2 | 1.31 | 0.6 | 0.9 | 8.5 | 10 | 19.5 | 40 | 0.02 | 6 | 3.5 |
| | 1.5 | 30/0.25 | 1.58 | 0.7 | 1.0 | 10.0 | 14 | 13.3 | 40 | 0.02 | 7 | 3.5 |
| | 2.5 | 50/0.25 | 2.04 | 0.8 | 1.1 | 11.9 | 21 | 7.98 | 40 | 0.02 | 8 | 3.5 |
| | 4.0 | 56/0.3 | 2.59 | 0.8 | 1.1 | 12.1 | 24 | 4.95 | 40 | 0.02 | 8 | 3.5 |
| 5 (4C + E) | 0.75 | 24/0.2 | 1.13 | 0.6 | 0.9 | 8.9 | 10 | 26.0 | 40 | 0.02 | 8 | 3.5 |
| | 1.0 | 32/0.2 | 1.31 | 0.6 | 0.9 | 9.2 | 12 | 19.5 | 40 | 0.02 | 6 | 3.5 |
| | 1.5 | 30/0.25 | 1.58 | 0.7 | 1.1 | 11.0 | 17 | 13.3 | 40 | 0.02 | 7 | 3.5 |
| | 2.5 | 50/0.25 | 2.04 | 0.8 | 1.2 | 13.2 | 26 | 7.98 | 40 | 0.02 | 8 | 3.5 |
| | 4.0 | 56/0.3 | 2.59 | 0.8 | 1.3 | 14.5 | 36 | 4.95 | 40 | 0.02 | 8 | 3.5 |

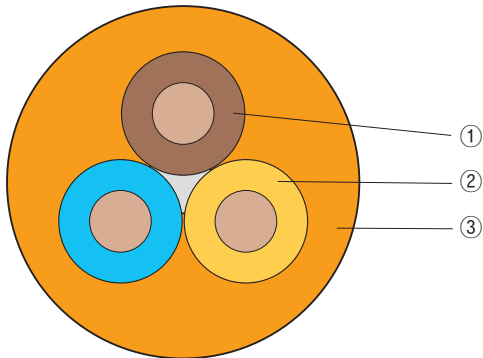
* E : Earth core

(250/440V VVS)

0.6/1KV Flexible Cords and Cables

AS/NZS 5000

Copper Conductor – PVC Insulated, Sheath, V75



- ① Conductor
- ② Insulation
- ③ Sheath

- Rating Voltage : 0.6/1KV
- Max. Conductor Temp. : 75℃
- Type : Heavy Duty
- Construction
 - Conductor : Bunched Circular Copper Conductor
 - Insulation and Sheath : PVC to AS/NZS 3808
 - Color for Core Identification
 - 2 Core : Brown, Sky Blue
 - 3 Core : Brown, Sky Blue, Green/Yellow
 - 4 Core : Brown, Black, Sky Blue, Green/Yellow
 - 5 Core : Brown, Black, White, Sky Blue, Green/Yellow
 - Color for Sheath : Grey or Orange
- Specification : AS/NZS 5000

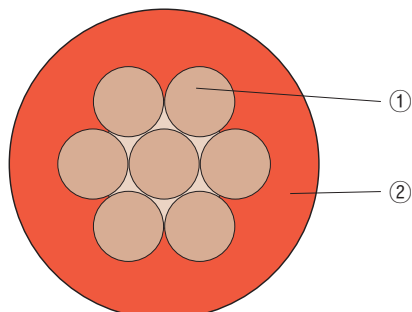
| No of Core | Conductor | | | Thick-ness of Insulation mm | Thick-ness of Sheath mm | Approx. Overall diameter mm | Approx. Weight kg/100m | Max. conductor resistance (20℃) Ω/km | Insulation resistance constant (Ki) MΩ-km | | Spark test on core mm | High voltage test kV/5min |
|---------------|--|---------------------------------|---------------------|-----------------------------|-------------------------|-----------------------------|------------------------|--------------------------------------|---|------|-----------------------|---------------------------|
| | Nominal Cross-Sectional Area mm ² | Number & Diameter of wire No/mm | Outside Diameter mm | | | | | | 20℃ | 75℃ | | |
| 2 | 0.75 | 24/0.2 | 1.13 | 0.8 | 1.3 | 8.8 | 9 | 26.0 | 40 | 0.02 | 8 | 3.5 |
| | 1.0 | 32/0.2 | 1.31 | 0.8 | 1.3 | 9.0 | 10 | 19.5 | 40 | 0.02 | 8 | 3.5 |
| | 1.5 | 30/0.25 | 1.58 | 0.8 | 1.5 | 10.1 | 12 | 13.3 | 40 | 0.02 | 8 | 3.5 |
| | 2.5 | 50/0.25 | 2.04 | 0.9 | 1.7 | 11.9 | 18 | 7.98 | 40 | 0.02 | 9 | 3.5 |
| | 4.0 | 56/0.3 | 2.59 | 1.0 | 1.8 | 13.6 | 25 | 4.95 | 40 | 0.02 | 10 | 3.5 |
| 3 (2C + E) | 0.75 | 24/0.2 | 1.13 | 0.8 | 1.4 | 9.5 | 10 | 26.0 | 40 | 0.02 | 8 | 3.5 |
| | 1.0 | 32/0.2 | 1.31 | 0.8 | 1.4 | 9.8 | 12 | 19.5 | 40 | 0.02 | 8 | 3.5 |
| | 1.5 | 30/0.25 | 1.58 | 0.8 | 1.6 | 10.8 | 15 | 13.3 | 40 | 0.02 | 8 | 3.5 |
| | 2.5 | 50/0.25 | 2.04 | 0.9 | 1.8 | 12.8 | 22 | 7.98 | 40 | 0.02 | 9 | 3.5 |
| | 4.0 | 56/0.3 | 2.59 | 1.0 | 1.9 | 14.5 | 30 | 4.95 | 40 | 0.02 | 10 | 3.5 |
| 4 (3C + E) | 0.75 | 24/0.2 | 1.13 | 0.8 | 1.5 | 10.5 | 13 | 26.0 | 40 | 0.02 | 8 | 3.5 |
| | 1.0 | 32/0.2 | 1.31 | 0.8 | 1.5 | 10.7 | 14 | 19.5 | 40 | 0.02 | 8 | 3.5 |
| | 1.5 | 30/0.25 | 1.58 | 0.8 | 1.7 | 11.8 | 18 | 13.3 | 40 | 0.02 | 8 | 3.5 |
| | 2.5 | 50/0.25 | 2.04 | 0.9 | 1.9 | 14.0 | 27 | 7.98 | 40 | 0.02 | 9 | 3.5 |
| | 4.0 | 56/0.3 | 2.59 | 1.0 | 2.0 | 16.0 | 38 | 4.95 | 40 | 0.02 | 10 | 3.5 |
| 5 (4C + E) | 0.75 | 24/0.2 | 1.13 | 0.8 | 1.6 | 11.5 | 15 | 26.0 | 40 | 0.02 | 8 | 3.5 |
| | 1.0 | 32/0.2 | 1.31 | 0.8 | 1.6 | 11.7 | 17 | 19.5 | 40 | 0.02 | 8 | 3.5 |
| | 1.5 | 30/0.25 | 1.58 | 0.8 | 1.8 | 13.0 | 22 | 13.3 | 40 | 0.02 | 8 | 3.5 |
| | 2.5 | 50/0.25 | 2.04 | 0.9 | 2.0 | 15.4 | 32 | 7.98 | 40 | 0.02 | 9 | 3.5 |
| | 4.0 | 56/0.3 | 2.59 | 1.0 | 2.2 | 17.8 | 46 | 4.95 | 40 | 0.02 | 10 | 3.5 |

* E : Earth core

(0.6/1kV VVS)

PVC—Insulated Non—Sheathed Cables (single core)

BS 6004



- ① Conductor
② Insulation

- Rating Voltage : 600/1000V
- Max. Conductor Temp. : 70°C
- Construction
- Conductor : Annealed Copper Conductor
- Insulation : PVC to BS 6746
- Color : Red, Black, Yellow, Blue or Green
- Specification : BS 6004

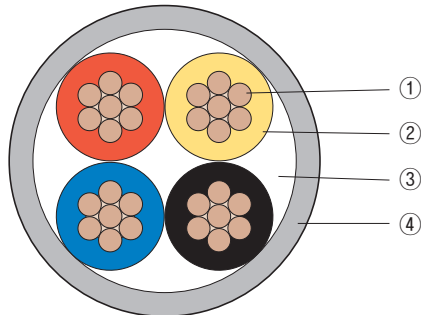
| Conductor | | Radial Thickness of Insulation mm | Approx. Overall Diameter mm | Minimum Insulation Resistance at 20°C MΩ • km | Test Voltage V/5min. |
|--|------------------------------------|-----------------------------------|-----------------------------|---|----------------------|
| Nominal Cross-Sectional Area mm ² | Number and Diameter of Wires No/mm | | | | |
| 1.0 | 1/1.13 | 0.8 | 2.9 | 23 | 1500 |
| 1.5 | 1/1.38 | 0.8 | 3.1 | 20 | 1500 |
| 2.5 | 1/1.78 | 0.8 | 3.5 | 18 | 1500 |
| 4 | 7/0.85 | 0.8 | 4.3 | 16 | 1500 |
| 6 | 7/1.04 | 0.8 | 4.9 | 13 | 1500 |
| 10 | 7/1.35 | 1.0 | 6.2 | 13 | 3000 |
| 16 | 7/1.70 | 1.0 | 7.3 | 11 | 3000 |
| 25 | 19/1.53 | 1.2 | 9.0 | 10 | 3000 |
| 35 | 19/1.78 | 1.2 | 10.3 | 8 | 3000 |
| 50 | 7/2.14 | 1.4 | 12.0 | 8 | 3000 |
| 70 | 19/1.78 | 1.4 | 13.8 | 7 | 3000 |
| 95 | 19/2.14 | 1.6 | 16.1 | 7 | 3000 |
| 120 | 19/2.52 | 1.6 | 17.7 | 7 | 3000 |
| 150 | 37/2.25 | 1.8 | 19.6 | 7 | 3000 |
| 185 | 37/2.52 | 2.0 | 22.0 | 7 | 3000 |
| 240 | 61/2.25 | 2.2 | 25.0 | 6 | 3000 |
| 300 | 61/2.52 | 2.4 | 37.8 | 6 | 3000 |
| 400 | 61/2.85 | 2.6 | 31.3 | 6 | 3000 |
| 500 | 61/3.20 | 2.8 | 34.9 | 6 | 3000 |
| 630 | 127/2.52 | 2.8 | 38.8 | 6 | 3000 |

(0.6/1kV IV)

PVC–Insulated PVC–Sheathed Cables

BS 6004

(single core, circular twin, three and four core)



- ① Conductor
- ② Insulation
- ③ Filler
- ④ Sheath

- Rating Voltage : 600/1000V
- Max. Conductor Temp. : 70℃
- Construction
 - Conductor : Annealed Copper Conductor
 - Insulation and Sheath : PVC to BS 6746
 - Color for Core Identification
 - Single Core : Red or Black
 - Twin : Red and Blue
 - Three core : Red, Yellow and Blue
 - Four Core : Red, Yellow, Blue and Black
- Color of Sheath : Grey
- Specification : BS 6004

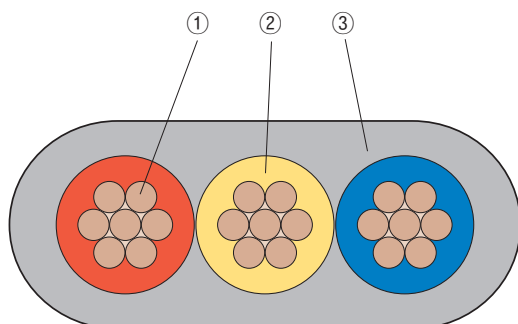
| Conductor | | Radial Thick-ness of Insulation mm | Radial Thickness of Sheath | | | | Approx. Overall Diameter | | | | Minimum Insulation Resistance at 20℃ MΩ • km | Test Voltage V/5min |
|--|------------------------------------|------------------------------------|----------------------------|---------|---------------|--------------|--------------------------|---------|---------------|--------------|--|---------------------|
| Nominal Cross-Sectional Area mm ² | Number and Diameter of Wires No/mm | | Single Core mm | Twin mm | Three Core mm | Four Core mm | Single Core mm | Twin mm | Three Core mm | Four Core mm | | |
| 1.0 | 1/1.13 | 0.6 | 0.8 | 0.9 | 0.9 | 0.9 | 4.2 | 6.4 | 7.1 | 7.7 | 23 | 1500 |
| 1.5 | 1/1.38 | 0.6 | 0.8 | 0.9 | 0.9 | 0.9 | 4.4 | 7.2 | 7.6 | 8.3 | 20 | 1500 |
| 2.5 | 1/1.78 | 0.7 | 0.8 | 1.0 | 1.0 | 1.0 | 5.0 | 8.6 | 9.1 | 10.0 | 18 | 1500 |
| 4 | 7/0.85 | 0.8 | 0.9 | 1.0 | 1.1 | 1.1 | 6.2 | 10.7 | 11.5 | 12.6 | 16 | 1500 |
| 6 | 7/1.04 | 0.8 | 0.9 | 1.1 | 1.1 | 1.2 | 6.8 | 12.0 | 12.8 | 14.2 | 13 | 1500 |
| 10 | 7/1.35 | 1.0 | 0.9 | 1.2 | 1.2 | 1.3 | 8.1 | 14.9 | 15.8 | 17.6 | 13 | 3000 |
| 16 | 7/1.70 | 1.0 | 1.0 | 1.3 | 1.3 | 1.4 | 9.4 | 17.2 | 18.3 | 20.3 | 11 | 3000 |
| 25 | 7/2.14 | 1.2 | 1.1 | 1.4 | 1.5 | 1.6 | 11.4 | 20.9 | 22.5 | 25.0 | 10 | 3000 |
| 35 | 19/1.53 | 1.2 | 1.1 | 1.5 | 1.6 | 1.7 | 12.6 | 23.6 | 25.4 | 28.2 | 8 | 3000 |
| 50 | 19/1.78 | 1.4 | 1.2 | 1.6 | 1.7 | 1.8 | 14.5 | 27.1 | 29.1 | 32.5 | 8 | 3000 |
| 70 | 19/2.14 | 1.4 | 1.2 | 1.8 | 1.9 | 2.0 | 16.3 | 31.2 | 33.5 | 37.2 | 7 | 3000 |
| 95 | 19/2.52 | 1.6 | 1.3 | 2.0 | 2.1 | 2.2 | 18.8 | 36.2 | 38.9 | 43.3 | 7 | 3000 |
| 120 | 37/2.03 | 1.6 | 1.4 | 2.1 | 2.2 | 2.4 | 20.7 | 39.6 | 42.7 | 47.6 | 7 | 3000 |
| 150 | 37/2.25 | 1.8 | 1.5 | 2.2 | 2.4 | 2.6 | 22.8 | 43.8 | 47.3 | 52.8 | 7 | 3000 |
| 185 | 37/2.52 | 2.0 | 1.6 | 2.4 | 2.6 | 2.8 | 25.3 | 48.7 | 52.7 | 58.7 | 7 | 3000 |
| 240 | 61/2.25 | 2.2 | 1.7 | 2.7 | 2.8 | 3.1 | 28.5 | 55.5 | 59.6 | 66.7 | 6 | 3000 |
| 300 | 61/2.52 | 2.4 | 1.8 | 2.9 | 3.1 | 3.2 | 31.6 | 61.6 | 66.4 | 73.9 | 6 | 3000 |
| 400 | 61/2.85 | 2.6 | 1.9 | - | - | - | 35.2 | - | - | - | 6 | 3000 |
| 500 | 61/3.20 | 2.8 | 2.1 | - | - | - | 39.2 | - | - | - | 6 | 3000 |
| 630 | 127/2.52 | 2.8 | 2.2 | - | - | - | 43.4 | - | - | - | 5 | 3000 |

* E : Earth core

(0.6/kV VV)

PVC–Insulated PVC–Sheathed Cables (flat twin and three Core)

BS 6004



- ① Conductor
- ② Insulation
- ③ Sheath

- Rating Voltage : 600/1000V
- Max. Conductor Temp. : 70℃
- Construction
 - Conductor : Annealed Copper Conductor
 - Insulation and Sheath : PVC to BS 6746
 - Color for Core Identification
 - Twin : Red and Blue
 - Three core : Red, Yellow and Blue
- Color of Sheath : Grey
- Specification : BS 6004

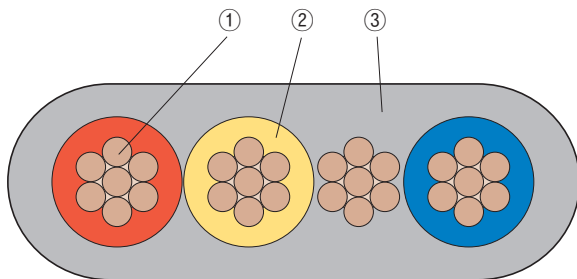
| Conductor | | Radial Thickness of Insulation mm | Radial Thickness of Sheath | | Approx. Overall Diameter | | Minimum Insulation Resistance at 20℃ MΩ • km | Test Voltage V/5min. |
|--|------------------------------------|-----------------------------------|----------------------------|---------------|--------------------------|--------------------|--|----------------------|
| Nominal Cross-sectional Area mm ² | Number and Diameter of Wires No/mm | | Twin mm | Three-core mm | Flat Twin mm | Flat Three-core mm | | |
| 1.0 | 1/1.13 | 0.6 | 0.9 | 0.9 | 4.4×6.7 | 4.4×9.0 | 23 | 1500 |
| 1.5 | 1/1.38 | 0.6 | 0.9 | 0.9 | 4.6×7.2 | 4.6×9.8 | 20 | 1500 |
| 2.5 | 1/1.78 | 0.7 | 1.0 | 1.0 | 5.4×8.6 | 5.5×11.9 | 18 | 1500 |
| 4 | 7/0.85 | 0.8 | 1.0 | 1.1 | 6.5×10.7 | 6.7×15.0 | 16 | 1500 |
| 6 | 7/1.04 | 0.8 | 1.1 | 1.1 | 7.3×12.0 | 7.3×16.7 | 13 | 1500 |
| 10 | 7/1.35 | 1.0 | 1.2 | 1.2 | 8.8×14.9 | 8.9×21.0 | 13 | 3000 |
| 16 | 7/1.70 | 1.0 | 1.3 | 1.3 | 10.1×17.2 | 10.2×24.4 | 11 | 3000 |

(0.6/kV VVF)

PVC–Insulated PVC–Sheathed Cables

BS 6004

(flat twin and three core with earth continuity conductor)



- ① Conductor
- ② Insulation
- ③ Sheath

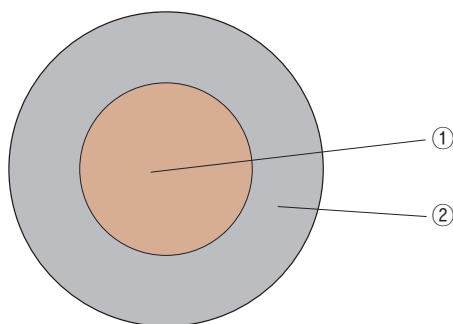
- Rating Voltage : 600/1000V
- Max. Conductor Temp. : 70℃
- Construction
 - Conductor : Annealed Copper Conductor
 - Insulation and Sheath : PVC to BS 6746
 - Color for Core Identification
 - Twin : Red and Black
 - Three core : Red, Yellow and Blue
- Position of Earth Continuity Conductor
 - Twin : Centrally Placed in same plane.
 - Three core : Centrally placed between Yellow and Blue cores in same plane.
- Color of Sheath : Grey
- Specification : BS 6004

| Conductor | | Radial Thickness of Insulation mm | Radial Thickness of Sheath | | Approx. Overall Diameter | | Earth Continuity Conductor No. and Diameter of wires | Minimum Insulation Resistance at 20℃ MΩ • km | Test Voltage V/5min. |
|--|------------------------------------|-----------------------------------|----------------------------|---------------|--------------------------|--------------------|--|--|----------------------|
| Nominal Cross-sectional Area mm ² | Number and Diameter of Wires No/mm | | Twin mm | Three-core mm | Flat Twin mm | Flat Three-core mm | | | |
| 1.0 | 1/1.13 | 0.6 | 0.9 | 0.9 | 4.4×7.8 | 4.4×10.2 | 1/1.13 | 23 | 1500 |
| 1.5 | 1/1.38 | 0.6 | 0.9 | 0.9 | 4.6×8.3 | 4.7×11.0 | 1/1.13 | 20 | 1500 |
| 2.5 | 1/1.78 | 0.7 | 1.0 | 1.0 | 5.4×9.7 | 5.5×13.0 | 1/1.13 | 18 | 1500 |
| 4 | 7/0.85 | 0.8 | 1.0 | 1.1 | 6.5×12.0 | 6.7×16.4 | 1/1.38 | 16 | 1500 |
| 6 | 7/1.04 | 0.8 | 1.1 | 1.1 | 7.3×13.8 | 7.3×18.5 | 1/1.78 | 13 | 1500 |
| 10 | 7/1.35 | 1.0 | 1.2 | 1.2 | 8.8×17.4 | 8.9×23.6 | 7/.85 | 13 | 3000 |
| 16 | 7/1.70 | 1.0 | 1.3 | 1.3 | 10.1×20.3 | 10.2×27.5 | 7/1.04 | 11 | 3000 |

(0.6/1kV VVF)

PVC—Insulated Non—Sheathed Cables (single core)

VDE 2050



- ① Conductor
② Insulation

- Rating Voltage : 600/1000V
- Max. Conductor Temp. : 70℃
- Construction
 - Conductor : Annealed Copper Conductor
 - Insulation : PVC to VDE 0209
 - Color : Black or other Colors if required
- Specification : VDE 2050

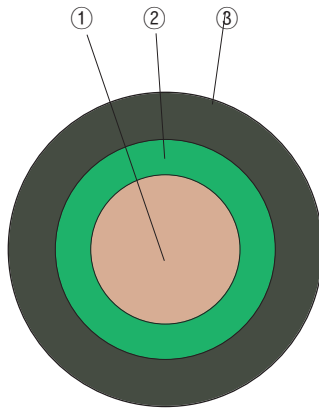
■ Type NTA

| Conductor | | Radial Thickness of Insulation mm | Approx. Overall Diameter mm | Approx. Net Weight kg/km | AC Testing Voltage V/1min | Minimum Insulation Resistance at 60℃ MΩ • km | Standard Length mm |
|----------------------------------|------------------------------------|-----------------------------------|-----------------------------|--------------------------|---------------------------|--|--------------------|
| Nominal Cross-sectional Area mm² | Number and Diameter of Wires No/mm | | | | | | |
| 0.5 | 1/8.0 | 0.6 | 2.1 | 9 | 2500 | 0.029 | 300 |
| 0.75 | 1/0.98 | 0.6 | 2.3 | 12 | 2500 | 0.025 | 300 |
| 1.0 | 1/1.13 | 0.6 | 2.5 | 14 | 2500 | 0.022 | 300 |
| 1.5 | 1/1.39 | 0.6 | 2.7 | 20 | 2500 | 0.019 | 300 |
| 2.5 | 1/1.79 | 0.7 | 3.3 | 31 | 2500 | 0.016 | 300 |
| 4 | 1/2.26 | 0.7 | 3.8 | 50 | 2500 | 0.014 | 300 |
| 6 | 1/2.77 | 0.8 | 4.5 | 70 | 2500 | 0.014 | 300 |
| 10 | 1/3.57 | 0.8 | 5.3 | 115 | 2500 | 0.011 | 300 |
| 16 | 1/4.52 | 1.0 | 6.7 | 170 | 2500 | 0.011 | 300 |
| 16 | 7/1.71 | 1.0 | 7.3 | 185 | 2500 | 0.010 | 300 |
| 25 | 7/2.14 | 1.2 | 9.1 | 285 | 2500 | 0.009 | 300 |
| 35 | 19/1.54 | 1.2 | 10.3 | 380 | 2500 | 0.008 | 300 |
| 50 | 19/1.83 | 1.4 | 12.2 | 535 | 2500 | 0.008 | 300 |
| 70 | 19/2.17 | 1.4 | 13.9 | 735 | 2500 | 0.007 | 300 |
| 95 | 19/2.53 | 1.6 | 16.1 | 995 | 2500 | 0.007 | 300 |
| 120 | 37/2.04 | 1.6 | 17.7 | 1240 | 2500 | 0.005 | 300 |
| 150 | 37/2.28 | 1.8 | 19.8 | 1550 | 2500 | 0.005 | 300 |
| 185 | 37/2.53 | 2.0 | 22.1 | 1910 | 2500 | 0.005 | 300 |
| 240 | 61/2.24 | 2.2 | 25.0 | 2460 | 2500 | 0.005 | 200 |
| 300 | 61/2.51 | 2.4 | 27.8 | 3100 | 2500 | 0.005 | 200 |
| 400 | 61/2.89 | 2.6 | 31.7 | 4080 | 2500 | 0.005 | 200 |
| 500 | 91/2.65 | 3.0 | 35.6 | 5120 | 2500 | 0.005 | 200 |

(0.6/1kV IV)

PVC-Insulated PVC-Sheathed Circular Cables (Type NYY)

VDE 0271



- ① Conductor
- ② Insulation
- ③ Sheath

- Rating Voltage : 600/1000V
- Max. Conductor Temp. : 70°C
- Construction
 - Conductor : Annealed Copper Conductor
 - Insulation and Sheath : PVC to VDE 0209
 - Colours for core identification
 - Cables Containing a Green/Yellow Core
 - Single-core : Green/Yellow or Light Blue or Black
 - Twin : Green/Yellow, Black
 - Three-core : Green/Yellow, Black, Light-Blue
 - Four-core : Green/Yellow, Black, Light-Blue, Brown
 - Five-core : Green/Yellow, Black, Light-Blue, Brown, Black
 - Multi-core : Green/Yellow, the other cores Black with printed numbers
 - Cables without a Green/Yellow core
 - Single core : Light Blue or Black
 - Twin : Black, Light-Blue
 - Three-core : Black, Light-Blue, Brown
 - Four-core : Black, Light-Blue, Brown, Black
 - Five-core : Black, Light-Blue, Brown, Black, Black
 - Multi-core : Black cores with printed numbers

• Specification : VDE 0271

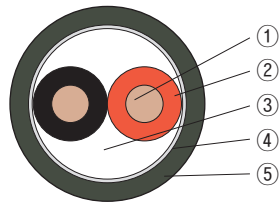
■ Single-core

| Conductor | | Thickness of Insulation mm | Thickness of Sheath mm | Approx. Diameter mm | Approx. Weight kg/km | AC Testing Voltage V/1min | Minimum Insulation Resistance at 60°C MΩ • km | Standard Length m |
|----------------------------------|-------------------------------|----------------------------|------------------------|---------------------|----------------------|---------------------------|---|-------------------|
| Nominal Cross-sectional Area mm² | No. & Diameter of Wire No./mm | | | | | | | |
| 1.5 | 1/1.39 | 0.8 | 1.8 | 6.9 | 65 | 4000 | 0.024 | 300 |
| 2.5 | 1/1.79 | 0.9 | 1.8 | 7.6 | 80 | 4000 | 0.022 | 300 |
| 4 | 1/2.26 | 1.0 | 1.8 | 8.3 | 105 | 4000 | 0.019 | 300 |
| 6 | 1/2.77 | 1.0 | 1.8 | 8.8 | 125 | 4000 | 0.017 | 300 |
| 10 | 1/3.57 | 1.0 | 1.8 | 9.6 | 175 | 4000 | 0.013 | 300 |
| 16 | 1/4.52 | 1.0 | 1.8 | 10.5 | 240 | 4000 | 0.011 | 300 |
| 25 | 7/2.14 | 1.2 | 1.8 | 13 | 370 | 4000 | 0.009 | 300 |
| 35 | 19/1.54 | 1.2 | 1.8 | 14 | 475 | 4000 | 0.008 | 300 |
| 50 | 19/1.83 | 1.4 | 1.8 | 16 | 645 | 4000 | 0.008 | 300 |
| 70 | 19/2.17 | 1.4 | 1.8 | 18 | 860 | 4000 | 0.007 | 300 |
| 95 | 19/2.53 | 1.6 | 1.8 | 20 | 1140 | 4000 | 0.007 | 300 |
| 120 | 37/2.04 | 1.6 | 1.8 | 22 | 1390 | 4000 | 0.005 | 300 |
| 150 | 37/2.28 | 1.8 | 1.8 | 24 | 1720 | 4000 | 0.005 | 300 |
| 185 | 37/2.53 | 2.0 | 2.0 | 27 | 2140 | 4000 | 0.005 | 200 |
| 240 | 61/2.24 | 2.2 | 2.0 | 30 | 2710 | 4000 | 0.005 | 200 |
| 300 | 61/2.51 | 2.4 | 2.0 | 33 | 3380 | 4000 | 0.005 | 150 |
| 400 | 61/2.89 | 2.6 | 2.2 | 37 | 4390 | 4000 | 0.005 | 150 |
| 500 | 61/3.23 | 3.0 | 2.2 | 41 | 5530 | 4000 | 0.005 | 100 |

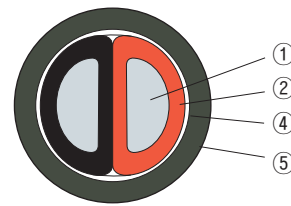
(0.6/1kV VV)

PVC–Insulated PVC–Sheathed Circular Cables (Type NYY)

VDE 0271



Twin



Twin with Shaped Conductor

- ① Conductor
- ② Insulation
- ③ Filler
- ④ Tape
- ⑤ Sheath

■ Twin

| Conductor | | Thickness of Insulation mm | Thickness of Sheath mm | Approx. Diameter mm | Approx. Weight kg/km | AC Testing Voltage V/1min | Minimum Insulation Resistance at 60 °C MΩ • km | Standard Length m |
|--|-----------------------|----------------------------|------------------------|---------------------|----------------------|---------------------------|--|-------------------|
| Nominal Cross-sectional Area mm ² | No. & Diameter No./mm | | | | | | | |
| 1.5 | 1/1.39 | 0.8 | 1.8 | 12 | 155 | 4000 | 0.024 | 300 |
| 2.5 | 1/1.79 | 0.9 | 1.8 | 13.5 | 200 | 4000 | 0.022 | 300 |
| 4 | 1/2.26 | 1.0 | 1.8 | 14.5 | 255 | 4000 | 0.019 | 300 |
| 6 | 1/2.77 | 1.0 | 1.8 | 15.5 | 310 | 4000 | 0.017 | 300 |
| 10 | 1/3.57 | 1.0 | 1.8 | 17.5 | 415 | 4000 | 0.013 | 300 |
| 16 | 1/4.52 | 1.0 | 1.8 | 19.5 | 565 | 4000 | 0.011 | 300 |
| 25 | 7/2.14 | 1.2 | 2.0 | 26 | 940 | 4000 | 0.009 | 300 |
| 35 | 19/1.54 | 1.2 | 2.0 | 28 | 1190 | 4000 | 0.008 | 300 |
| 50 | 19/1.83 | 1.4 | 2.0 | 32 | 1580 | 4000 | 0.008 | 300 |
| 70 | 19/2.17 | 1.4 | 2.2 | 36 | 2140 | 4000 | 0.007 | 300 |
| 95 | 19/2.53 | 1.6 | 2.2 | 41 | 2790 | 4000 | 0.007 | 300 |
| 120 | 37/2.04 | 1.6 | 2.4 | 44 | 3430 | 4000 | 0.005 | 300 |
| 150 | 37/2.28 | 1.8 | 2.6 | 49 | 4260 | 4000 | 0.005 | 300 |
| 185 | 37/2.53 | 2.0 | 2.8 | 54 | 5150 | 4000 | 0.005 | 200 |
| 240 | 61/2.24 | 2.2 | 3.0 | 61 | 6640 | 4000 | 0.005 | 200 |
| 300 | 61/2.51 | 2.4 | 3.2 | 68 | 8380 | 4000 | 0.005 | 150 |
| 400 | 61/2.89 | 2.6 | 3.4 | 76 | 10690 | 4000 | 0.005 | 150 |

■ Twin with Shaped Conductor

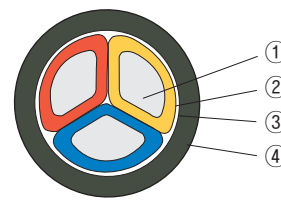
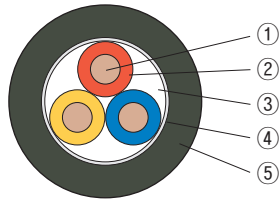
| Conductor | | Thickness of Insulation mm | Thickness of Sheath mm | Approx. Diameter mm | Approx. Weight kg/km | AC Testing Voltage V/1min | Minimum Insulation Resistance at 60 °C MΩ • km | Standard Length m |
|--|-------------------|----------------------------|------------------------|---------------------|----------------------|---------------------------|--|-------------------|
| Nominal Cross-sectional Area mm ² | Shape (*1) No./mm | | | | | | | |
| 35 | S.C | 1.2 | 1.8 | 23 | 1050 | 4000 | 0.008 | 300 |
| 50 | S.C | 1.4 | 2.0 | 27 | 1450 | 4000 | 0.008 | 300 |
| 70 | S.C | 1.4 | 2.0 | 29 | 1890 | 4000 | 0.007 | 300 |
| 95 | S.C | 1.6 | 2.0 | 33 | 2520 | 4000 | 0.007 | 300 |
| 120 | S.C | 1.6 | 2.2 | 36 | 3070 | 4000 | 0.005 | 300 |
| 150 | S.C | 1.8 | 2.2 | 39 | 3840 | 4000 | 0.005 | 300 |
| 185 | S.C | 2.0 | 2.2 | 43 | 4590 | 4000 | 0.005 | 200 |
| 240 | S.C | 2.2 | 2.6 | 48 | 5920 | 4000 | 0.005 | 200 |
| 300 | S.C | 2.4 | 2.6 | 53 | 7320 | 4000 | 0.005 | 150 |
| 400 | S.C | 2.6 | 3.0 | 60 | 9260 | 4000 | 0.005 | 150 |

*1) S.C : Sector Shaped Stranded Conductor

PVC-Insulated PVC-Sheathed Circular Cables

VDE 0271

(Type NYY)



- ① Conductor
- ② Insulation
- ③ Filler
- ④ Tape
- ⑤ Sheath

■ Three+core

Twin with Shaped Conductor

| Conductor | | Thickness of Insulation mm | Thickness of Sheath mm | Approx. Diameter mm | Approx. Weight kg/km | AC Testing Voltage V/1min | Minimum Insulation Resistance at 60°C MΩ • km | Standard Length m |
|----------------------------------|-----------------------|----------------------------|------------------------|---------------------|----------------------|---------------------------|---|-------------------|
| Nominal Cross-sectional Area mm² | No. & Diameter No./mm | | | | | | | |
| 1.5 | 1/1.39 | 0.8 | 1.8 | 12.5 | 180 | 4000 | 0.024 | 300 |
| 2.5 | 1/1.79 | 0.9 | 1.8 | 14 | 240 | 4000 | 0.022 | 300 |
| 4 | 1/2.26 | 1.0 | 1.8 | 15.5 | 310 | 4000 | 0.019 | 300 |
| 6 | 1/2.77 | 1.0 | 1.8 | 16.5 | 390 | 4000 | 0.017 | 300 |
| 10 | 1/3.57 | 1.0 | 1.8 | 18 | 535 | 4000 | 0.013 | 300 |
| 16 | 1/4.52 | 1.0 | 1.8 | 21 | 745 | 4000 | 0.011 | 300 |
| 25 | 7/2.14 | 1.2 | 2.0 | 27 | 1140 | 4000 | 0.009 | 300 |
| 35 | 19/1.54 | 1.2 | 2.0 | 30 | 1590 | 4000 | 0.008 | 300 |
| 50 | 19/1.83 | 1.4 | 2.0 | 34 | 2180 | 4000 | 0.008 | 300 |
| 70 | 19/2.17 | 1.4 | 2.2 | 38 | 2900 | 4000 | 0.007 | 300 |
| 95 | 19/2.53 | 1.6 | 2.2 | 43 | 3,820 | 4000 | 0.007 | 300 |
| 120 | 37/2.04 | 1.6 | 2.6 | 48 | 4790 | 4000 | 0.005 | 300 |
| 150 | 37/2.28 | 1.8 | 2.6 | 52 | 5850 | 4000 | 0.005 | 300 |
| 185 | 37/2.53 | 2.0 | 3.0 | 59 | 7270 | 4000 | 0.005 | 200 |
| 240 | 61/2.24 | 2.2 | 3.0 | 62 | 9160 | 4000 | 0.005 | 200 |
| 300 | 61/2.51 | 2.4 | 3.4 | 72 | 11550 | 4000 | 0.005 | 150 |
| 400 | 61/2.89 | 2.6 | 3.8 | 82 | 15050 | 4000 | 0.005 | 150 |

■ Three Core with Shaped Conductor

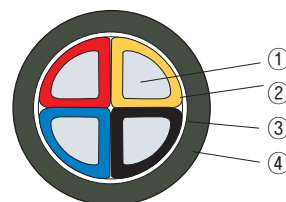
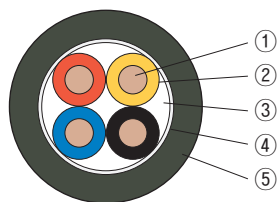
| Conductor | | Thickness of Insulation mm | Thickness of Sheath mm | Approx. Diameter mm | Approx. Weight kg/km | AC Testing Voltage V/1min | Minimum Insulation Resistance at 60°C MΩ • km | Standard Length m |
|----------------------------------|-------------------|----------------------------|------------------------|---------------------|----------------------|---------------------------|---|-------------------|
| Nominal Cross-sectional Area mm² | Shape (*1) No./mm | | | | | | | |
| 35 | S.C | 1.2 | 2.0 | 26 | 1530 | 4000 | 0.008 | 300 |
| 50 | S.C | 1.4 | 2.0 | 30 | 1770 | 4000 | 0.008 | 300 |
| 70 | S.C | 1.4 | 2.0 | 34 | 2770 | 4000 | 0.007 | 300 |
| 95 | S.C | 1.6 | 2.2 | 38 | 3670 | 4000 | 0.007 | 300 |
| 120 | S.C | 1.6 | 2.2 | 41 | 4460 | 4000 | 0.005 | 300 |
| 150 | S.C | 1.8 | 2.6 | 46 | 5670 | 4000 | 0.005 | 300 |
| 185 | S.C | 2.0 | 2.6 | 50 | 6850 | 4000 | 0.005 | 200 |
| 240 | S.C | 2.0 | 2.6 | 56 | 8710 | 4000 | 0.005 | 200 |
| 300 | S.C | 2.4 | 3.0 | 62 | 10870 | 4000 | 0.005 | 150 |
| 400 | S.C | 2.6 | 3.4 | 70 | 14260 | 4000 | 0.005 | 150 |

*1) S.C : Sector Shaped Stranded Conductor

PVC-Insulated PVC-Sheathed Circular Cables

(Type NYY)

VDE 0271



- ① Conductor
- ② Insulation
- ③ Filler
- ④ Tape
- ⑤ Sheath

■ Four core

Twin with Shaped Conductor

| Conductor | | Thickness of Insulation mm | Thickness of Sheath mm | Approx. Diameter mm | Approx. Weight kg/km | AC Testing Voltage V/1min | Minimum Insulation Resistance at 60 °C MΩ • km | Standard Length m |
|--|-----------------------|----------------------------|------------------------|---------------------|----------------------|---------------------------|--|-------------------|
| Nominal Cross-sectional Area mm ² | No. & Diameter No./mm | | | | | | | |
| 1.5 | 1/1.39 | 0.8 | 1.8 | 13 | 210 | 4000 | 0.024 | 300 |
| 2.5 | 1/1.79 | 0.9 | 1.8 | 15 | 285 | 4000 | 0.022 | 300 |
| 4 | 1/2.26 | 1.0 | 1.8 | 16.5 | 380 | 4000 | 0.019 | 300 |
| 6 | 1/2.77 | 1.0 | 1.8 | 18 | 480 | 4000 | 0.017 | 300 |
| 10 | 1/3.57 | 1.0 | 1.8 | 19.5 | 665 | 4000 | 0.013 | 300 |
| 16 | 1/4.52 | 1.0 | 1.8 | 23 | 990 | 4000 | 0.011 | 300 |
| 25 | 7/2.14 | 1.2 | 2.0 | 29 | 1570 | 4000 | 0.009 | 300 |
| 35 | 19/1.54 | 1.2 | 2.0 | 32 | 2020 | 4000 | 0.008 | 300 |
| 50 | 19/1.83 | 1.4 | 2.2 | 38 | 2810 | 4000 | 0.008 | 300 |
| 70 | 19/2.17 | 1.4 | 2.2 | 42 | 3720 | 4000 | 0.007 | 300 |
| 95 | 19/2.53 | 1.6 | 2.6 | 49 | 5050 | 4000 | 0.007 | 300 |
| 120 | 37/2.04 | 1.6 | 2.6 | 53 | 6150 | 4000 | 0.005 | 300 |
| 150 | 37/2.28 | 1.8 | 3.0 | 59 | 7690 | 4000 | 0.005 | 300 |
| 185 | 37/2.53 | 2.0 | 3.0 | 64 | 9370 | 4000 | 0.005 | 200 |
| 240 | 61/2.24 | 2.2 | 3.4 | 73 | 12050 | 4000 | 0.005 | 200 |
| 300 | 61/2.51 | 2.4 | 3.8 | 81 | 15130 | 4000 | 0.005 | 150 |
| 400 | 61/2.89 | 2.6 | 4.0 | 90 | 19560 | 4000 | 0.005 | 150 |

■ Four core with Shaped Conductor

| Conductor | | Thickness of Insulation mm | Thickness of Sheath mm | Approx. Diameter mm | Approx. Weight kg/km | AC Testing Voltage V/1min | Minimum Insulation Resistance at 60 °C MΩ • km | Standard Length m |
|--|-------------------|----------------------------|------------------------|---------------------|----------------------|---------------------------|--|-------------------|
| Nominal Cross-sectional Area mm ² | Shape (*1) No./mm | | | | | | | |
| 35 | S.C | 1.2 | 2.0 | 29 | 1970 | 4000 | 0.008 | 300 |
| 50 | S.C | 1.4 | 2.0 | 34 | 2730 | 4000 | 0.008 | 300 |
| 70 | S.C | 1.4 | 2.2 | 38 | 3630 | 4000 | 0.007 | 300 |
| 95 | S.C | 1.6 | 2.2 | 42 | 4780 | 4000 | 0.007 | 300 |
| 120 | S.C | 1.6 | 2.6 | 47 | 5960 | 4000 | 0.005 | 300 |
| 150 | S.C | 1.8 | 2.6 | 52 | 7350 | 4000 | 0.005 | 300 |
| 185 | S.C | 2.0 | 3.0 | 58 | 9110 | 4000 | 0.005 | 200 |
| 240 | S.C | 2.2 | 3.0 | 61 | 11500 | 4000 | 0.005 | 200 |
| 300 | S.C | 2.4 | 3.4 | 71 | 14470 | 4000 | 0.005 | 150 |
| 400 | S.C | 2.6 | 3.8 | 80 | 18900 | 4000 | 0.005 | 150 |

*1) S.C : Sector Shaped Stranded Conductor

PVC–Insulated PVC–Sheathed Circular Cables

(Type NYY)

■ Multi-core

| Conductor | | No. & Diameter of Wire mm | Thickness of Insulation mm | Thickness of Sheath mm | Approx. Overall Diameter mm | Approx. Weight kg/km | AC Testing Voltage V/1min | Minimum Insulation Resistance at 60 °C MΩ • km | Standard Length m |
|------------------------------------|----------------------------------|------------------------------|-------------------------------|---------------------------|--------------------------------|-------------------------|------------------------------|---|----------------------|
| Number of Cores mm ² | Nominal Sectional Area No./mm | | | | | | | | |
| 5 | 1.5 | 1/1.39 | 0.8 | 1.8 | 14 | 245 | 4000 | 0.024 | 300 |
| 7 | 1.5 | 1/1.39 | 0.8 | 1.8 | 15 | 300 | 4000 | 0.024 | 300 |
| 10 | 1.5 | 1/1.39 | 0.8 | 1.9 | 18 | 415 | 4000 | 0.024 | 300 |
| 12 | 1.5 | 1/1.39 | 0.8 | 1.8 | 18.5 | 465 | 4000 | 0.024 | 300 |
| 16 | 1.5 | 1/1.39 | 0.8 | 1.8 | 21 | 575 | 4000 | 0.024 | 300 |
| 19 | 1.5 | 1/1.39 | 0.8 | 1.8 | 22 | 685 | 4000 | 0.024 | 300 |
| 21 | 1.5 | 1/1.39 | 0.8 | 1.8 | 23 | 755 | 4000 | 0.024 | 300 |
| 24 | 1.5 | 1/1.39 | 0.8 | 2.0 | 26 | 890 | 4000 | 0.024 | 300 |
| 30 | 1.5 | 1/1.39 | 0.8 | 2.0 | 27 | 1040 | 4000 | 0.024 | 300 |
| 5 | 2.5 | 1/1.79 | 0.9 | 1.8 | 16 | 335 | 4000 | 0.022 | 300 |
| 7 | 2.5 | 1/1.79 | 0.9 | 1.8 | 17 | 420 | 4000 | 0.022 | 300 |
| 10 | 2.5 | 1/1.79 | 0.9 | 1.8 | 22 | 620 | 4000 | 0.022 | 300 |
| 12 | 2.5 | 1/1.79 | 0.8 | 1.8 | 23 | 670 | 4000 | 0.022 | 300 |
| 16 | 2.5 | 1/1.79 | 0.9 | 2.0 | 25 | 895 | 4000 | 0.022 | 300 |
| 19 | 2.5 | 1/1.79 | 0.9 | 2.0 | 26 | 1020 | 4000 | 0.022 | 300 |
| 21 | 2.5 | 1/1.79 | 0.9 | 2.0 | 28 | 1120 | 4000 | 0.022 | 300 |
| 24 | 2.5 | 1/1.79 | 0.9 | 2.0 | 30 | 1280 | 4000 | 0.022 | 300 |
| 30 | 2.5 | 1/1.79 | 0.9 | 2.2 | 32 | 1510 | 4000 | 0.022 | 300 |
| 5 | 4 | 1/2.26 | 1.0 | 1.8 | 18 | 450 | 4000 | 0.019 | 300 |
| 7 | 4 | 1/2.26 | 1.0 | 1.8 | 21 | 650 | 4000 | 0.019 | 300 |
| 10 | 4 | 1/2.26 | 1.0 | 2.0 | 25 | 875 | 4000 | 0.019 | 300 |
| 12 | 4 | 1/2.26 | 1.0 | 2.0 | 26 | 985 | 4000 | 0.019 | 300 |
| 16 | 4 | 1/2.26 | 1.0 | 2.0 | 29 | 1240 | 4000 | 0.019 | 300 |
| 19 | 4 | 1/2.26 | 1.0 | 2.0 | 31 | 1560 | 4000 | 0.019 | 300 |
| 21 | 4 | 1/2.26 | 1.0 | 2.2 | 35 | 1850 | 4000 | 0.019 | 300 |
| 24 | 4 | 1/2.26 | 1.0 | 2.2 | 35 | 1850 | 4000 | 0.019 | 300 |
| 30 | 4 | 1/2.26 | 1.0 | 2.2 | 37 | 2190 | 4000 | 0.019 | 300 |

Maximum Resistance of Annealed Copper Conductor

(Conparision of AS 1125 and BS 6360 and VDE 0201)

| Conductor | | | | | BS 6360 | | | | | | VDE 0201 | | | | | |
|----------------------------------|-------------------------|---------------------|--|--------|----------------------------|------------------------|-----|-----|--|--------|----------------------------|--------------------|--|--------|--------|--------|
| Nominal Cross-sectional Area mm² | Minimum number of Wires | Maximum Diameter mm | Maximum Resistance of Cable at 20°C Ω/km | | Nominal Sectional Area mm² | Minimum number of Wire | | | Maximum Resistance of Cable at 20°C Ω/km | | Nominal Sectional Area mm² | Number of Wire No. | Maximum Resistance of Cable at 20°C Ω/km | | | |
| | | | | | | | | | | | | | Plain | | Tinned | |
| | | | Plain | Tinned | | C | C.C | S.C | Plain | Tinned | | | Single | Multi | Single | Multi |
| 0.5 | 1 | 0.82 | 36.0 | 36.7 | 0.5 | 7 | - | - | 36.0 | 36.7 | 0.5 | 1 | 35.3 | 36.0 | 36.0 | 36.7 |
| 0.5 | 7 | 0.9 | 38.4 | 39.6 | 0.75 | 7 | - | - | 24.5 | 24.8 | 0.75 | 1 | 24.0 | 24.5 | 24.3 | 24.8 |
| 1.0 | 1 | 1.16 | 18.1 | 18.2 | - | - | - | - | - | - | 1 | 1 | 17.7 | 18.1 | 17.9 | 18.2 |
| 1.0 | 7 | 1.3 | 21.2 | 21.6 | 1 | 7 | - | - | 18.1 | 18.2 | - | - | - | - | - | - |
| 1.5 | 1 | 1.41 | 12.1 | 12.2 | - | - | - | - | - | - | 1.5 | 1 | 11.9 | 12.1 | 12.0 | 12.2 |
| 1.5 | 7 | 1.6 | 13.6 | 13.8 | 1.5 | 7 | 6 | - | 12.1 | 12.2 | - | - | - | - | - | - |
| 2.5 | 1 | 1.83 | 7.28 | 7.35 | - | - | - | - | - | - | 2.5 | 1 | 7.14 | 7.28 | 7.21 | 7.35 |
| 2.5 | 7 | 2.1 | 7.41 | 7.56 | 2.5 | 7 | 6 | - | 7.41 | 7.56 | - | - | - | - | - | - |
| 4 | 7 | 2.6 | 4.61 | 4.70 | 4 | 7 | 6 | - | 4.61 | 4.70 | 4 | 1 | 4.47 | 4.56 | 4.51 | 4.60 |
| 6 | 7 | 3.2 | 3.08 | 3.11 | 6 | 7 | 6 | - | 3.08 | 3.11 | 6 | 1 | 2.97 | 3.03 | 3.00 | 3.06 |
| 10 | 7 | 4.2 | 1.83 | 1.84 | 10 | 7 | 6 | - | 1.83 | 1.84 | 10 | 1 | 1.77 | 1.81 | 1.79 | 1.83 |
| 16 | 7 | 5.2 | 1.15 | 1.16 | 16 | 7 | 6 | - | 1.15 | 1.16 | 16 | 1 | 1.12 | - | - | - |
| 25 | 7 | 6.6 | 0.727 | 0.734 | 25 | 7 | 6 | 6 | 0.727 | 0.734 | 16 | 7 | 1.13 | 1.15 | 1.13 | 1.16 |
| 25 | 19℄™ | 6.9 | 0.727 | 0.734 | - | - | - | - | - | - | 25 | 7 | 0.712 | 0.727 | 0.719 | 0.734 |
| 35 | 7 | 7.8 | 0.524 | 0.529 | 35 | 7 | 6 | 6 | 0.524 | 0.529 | - | - | - | - | - | - |
| 35 | 19℄™ | 7.9 | 0.524 | 0.529 | - | - | - | - | - | - | 35 | 19 | 0.514 | 0.524 | 0.519 | 0.529 |
| 50 | 19 | 9.1 | 0.387 | 0.391 | 50 | 19 | 6 | 6 | 0.387 | 0.391 | 50 | 19 | 0.379 | 0.387 | 0.383 | 0.391 |
| 70 | 19 | 11.0 | 0.268 | 0.270 | 70 | 19 | 12 | 12 | 0.268 | 0.270 | 70 | 19 | 0.262 | 0.268 | 0.265 | 0.270 |
| 95 | 19 | 12.9 | 0.193 | 0.195 | 95 | 19 | 15 | 15 | 0.193 | 0.195 | 95 | 19 | 0.189 | 0.193 | 0.191 | 0.195 |
| 95 | 37 | 12.8 | 0.199 | 0.201 | - | - | - | - | - | - | - | - | - | - | - | - |
| 120 | 37 | 14.6 | 0.153 | 0.154 | 120 | 37 | 18 | 18 | 0.153 | 0.154 | 120 | 37 | 0.150 | 0.153 | 0.151 | 0.154 |
| 150 | 37 | 16.2 | 0.124 | 0.126 | 150 | 37 | 18 | 18 | 0.124 | 0.126 | 150 | 37 | 0.122 | 0.124 | 0.123 | 0.125 |
| 185 | 37 | 18.1 | 0.0991 | 0.100 | 185 | 37 | 30 | 30 | 1.0991 | 0.100 | 185 | 37 | 0.0972 | 0.0991 | 0.0982 | 0.100 |
| 240 | 61 | 20.8 | 0.0754 | 0.0762 | 240 | 61 | 34 | 34 | 0.0754 | 0.0762 | 240 | 61 | 0.0740 | 0.0754 | 0.0747 | 0.0762 |
| 300 | 61 | 23.2 | 0.0601 | 0.0607 | 300 | 61 | 34 | 34 | 0.0601 | 0.0607 | 300 | 61 | 0.0590 | 0.0601 | 0.0595 | 0.0607 |
| 400* | 61 | 26.3 | 0.0470 | 0.0475 | 400 | 61 | 53 | 53 | 0.0470 | 0.0475 | 400 | 61 | 0.0461 | 0.0470 | 0.0465 | 0.0475 |
| 500* | 61 | 29.5 | 0.0366 | 0.0369 | 500 | 61 | 53 | 53 | 0.0366 | 0.0369 | | | | | | |
| 630* | 91 | 33.6 | 0.0283 | 0.0286 | 630 | 91 | 53 | 53 | 0.0283 | 0.0286 | | | | | | |
| 800* | 91 | 38.0 | 0.0221 | 0.0224 | 800 | 91 | 53 | 53 | 0.0221 | 0.0224 | | | | | | |
| 1000* | 91 | 42.2 | 0.0176 | 0.0177 | 1000 | 91 | 53 | 53 | 0.0176 | 0.0177 | | | | | | |

*Single Core Cable only

**C : Circular Conductor

CC : Circular Compacted Conductor

***Ships' Cables

SC : Sector Shaped Compact Conductor