

#### ※69 kV Cross-Linked Polyethylene (XLPE) Cable

Standard(s): TPC A007

Construction: Conductor: Compact round, four- or five-segment compact round stranded soft-drawn copper wire (including semi-conductive tape)

Conductor shielding layer: Black extruded semi-conductive XLPE

Insulation: Additive-free extruded XLPE

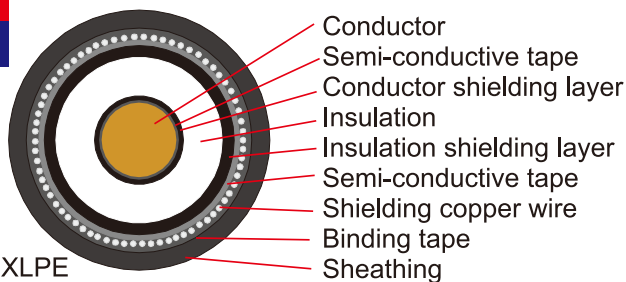
Insulation shield layer: Black extruded semi-conductive XLPE

Semi-conductive tape: Non-hygroscopic semi-conductive tape

Shielding copper wire: Can withstand system single-phase fault current of 10 kA/1.7 seconds

Binding tape: Water-blocking tape

Sheathing: Black PVC-coated graphite



| Nominal cross-sectional area | Conductor               |                             | Minimum average insulation thickness | Shielding copper wire       |               | Minimum average sheathing thickness | Approximate finished external diameter (reference value) | Maximum conductor DC resistance (20°C) | Test voltage (A.C.) | Minimum insulation resistance (15.6°C) | Maximum electrostatic capacity |
|------------------------------|-------------------------|-----------------------------|--------------------------------------|-----------------------------|---------------|-------------------------------------|----------------------------------------------------------|----------------------------------------|---------------------|----------------------------------------|--------------------------------|
|                              | Shape                   | External diameter (approx.) |                                      | Approximate strand diameter | Strand number |                                     |                                                          |                                        |                     |                                        |                                |
| mm <sup>2</sup>              |                         | mm                          | mm                                   | mm                          |               | mm                                  | mm                                                       | Ω/km                                   | kV/5 min            | MΩ·km                                  | μf/km                          |
| 100                          | Compact round           | 12.0                        | 16.51                                | 1.4                         | 65            | 3.5                                 | 63.0                                                     | 0.187                                  | 130±3%              | 3000                                   | 0.13                           |
| 150                          |                         | 14.7                        |                                      |                             |               | 3.5                                 | 65.5                                                     | 0.124                                  |                     | 2700                                   | 0.14                           |
| 200                          |                         | 17.0                        |                                      |                             |               | 3.5                                 | 68.0                                                     | 0.0933                                 |                     | 2500                                   | 0.15                           |
| 250                          |                         | 19.0                        |                                      |                             |               | 3.5                                 | 70.5                                                     | 0.0754                                 |                     | 2300                                   | 0.16                           |
| 325                          |                         | 21.7                        |                                      |                             |               | 3.5                                 | 73.5                                                     | 0.0580                                 |                     | 2200                                   | 0.17                           |
| 400                          |                         | 24.1                        |                                      |                             |               | 3.5                                 | 76.0                                                     | 0.0471                                 |                     | 2000                                   | 0.18                           |
| 500                          |                         | 26.6                        |                                      |                             |               | 4.0                                 | 79.5                                                     | 0.0376                                 |                     | 1900                                   | 0.19                           |
| 600                          |                         | 29.5                        |                                      |                             |               | 4.0                                 | 82.5                                                     | 0.0308                                 |                     | 1800                                   | 0.21                           |
| 800                          | Segmental compact round | 34.0                        | 20.7                                 | 2.0                         | 80            | 4.5                                 | 88.5                                                     | 0.0231                                 |                     | 1600                                   | 0.23                           |
| 1000                         |                         | 38.0                        |                                      |                             |               | 4.5                                 | 92.0                                                     | 0.0187                                 |                     | 1500                                   | 0.25                           |
| 1200                         |                         | 41.7                        |                                      |                             |               | 4.5                                 | 96.5                                                     | 0.0156                                 |                     | 1400                                   | 0.26                           |
| 1400                         |                         | 45.0                        |                                      |                             |               | 4.5                                 | 99.5                                                     | 0.0133                                 |                     | 1300                                   | 0.28                           |
| 1600                         |                         | 48.2                        |                                      |                             |               | 4.5                                 | 103.0                                                    | 0.0117                                 |                     | 1200                                   | 0.29                           |

#### ※161 kV Cross-Linked PE (XLPE) Cable

Standard(s): TPCA046

Construction: Conductor: Compact round, four- or five-segment compact round stranded soft-drawn copper wire (including semi-conductive tape)

Conductor shielding layer: Black extruded semi-conductive XLPE

Insulation: Additive-free extruded XLPE

Insulation shield layer: Black extruded semi-conductive XLPE

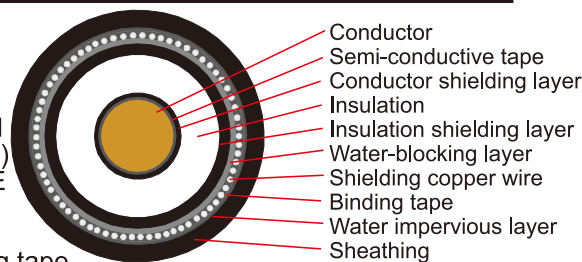
Water-blocking layer: Semi-conductive non-woven water-blocking tape

Shielding copper wire: Can withstand system single-phase fault current of 50 kA/0.4 seconds

Binding tape: Semi-conductive cloth tape

Water impervious layer: Metal laminated tape

Sheathing: Black PVC-coated graphite



| Nominal cross-sectional area | Conductor               |                             | Minimum average insulation thickness | Shielding copper wire       |               | Minimum average sheathing thickness | Approximate finished external diameter (reference value) | Maximum conductor DC resistance (20°C) | Test voltage (A.C.)                  | Minimum insulation resistance (15.6°C) | Maximum electrostatic capacity |
|------------------------------|-------------------------|-----------------------------|--------------------------------------|-----------------------------|---------------|-------------------------------------|----------------------------------------------------------|----------------------------------------|--------------------------------------|----------------------------------------|--------------------------------|
|                              | Shape                   | External diameter (approx.) |                                      | Approximate strand diameter | Strand number |                                     |                                                          |                                        |                                      |                                        |                                |
| mm <sup>2</sup>              |                         | mm                          | mm                                   | mm                          |               | mm                                  | mm                                                       | Ω/km                                   | kV / min                             | MΩ·km                                  | μf/km                          |
| 200                          | Compact round           | 17.0                        | 20.7                                 | 2.0                         | 80            | 4.5                                 | 84.0                                                     | 0.0933                                 | 280±3%<br>/15min<br>240±3%<br>/30min | 3700                                   | 0.12                           |
| 250                          |                         | 19.0                        |                                      |                             |               | 4.5                                 | 86.0                                                     | 0.0754                                 |                                      | 3400                                   | 0.13                           |
| 325                          |                         | 21.7                        |                                      |                             |               | 4.5                                 | 88.7                                                     | 0.0580                                 |                                      | 3200                                   | 0.14                           |
| 400                          |                         | 24.1                        |                                      |                             |               | 4.5                                 | 91.1                                                     | 0.0471                                 |                                      | 3000                                   | 0.14                           |
| 500                          |                         | 26.9                        |                                      |                             |               | 4.5                                 | 93.9                                                     | 0.0376                                 |                                      | 2800                                   | 0.15                           |
| 600                          |                         | 29.5                        |                                      |                             |               | 5.0                                 | 97.5                                                     | 0.0308                                 |                                      | 2700                                   | 0.16                           |
| 800                          |                         | 34.0                        |                                      |                             |               | 5.0                                 | 104.0                                                    | 0.0231                                 |                                      | 2400                                   | 0.19                           |
| 1000                         | Segmental compact round | 38.0                        |                                      |                             |               | 5.5                                 | 109.0                                                    | 0.0187                                 |                                      | 2200                                   | 0.20                           |
| 1200                         |                         | 41.7                        |                                      |                             |               | 5.5                                 | 111.7                                                    | 0.0156                                 |                                      | 2100                                   | 0.21                           |
| 1400                         |                         | 45.0                        |                                      |                             |               | 5.5                                 | 116.0                                                    | 0.0133                                 |                                      | 2000                                   | 0.23                           |
| 1600                         |                         | 48.2                        |                                      |                             |               | 5.5                                 | 119.2                                                    | 0.0117                                 |                                      | 1900                                   | 0.24                           |
| 1800                         |                         | 51.0                        |                                      |                             |               | 6.0                                 | 123.0                                                    | 0.0104                                 |                                      | 1800                                   | 0.25                           |
| 2000                         |                         | 53.8                        |                                      |                             |               | 6.0                                 | 125.8                                                    | 0.00933                                |                                      | 1800                                   | 0.26                           |



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