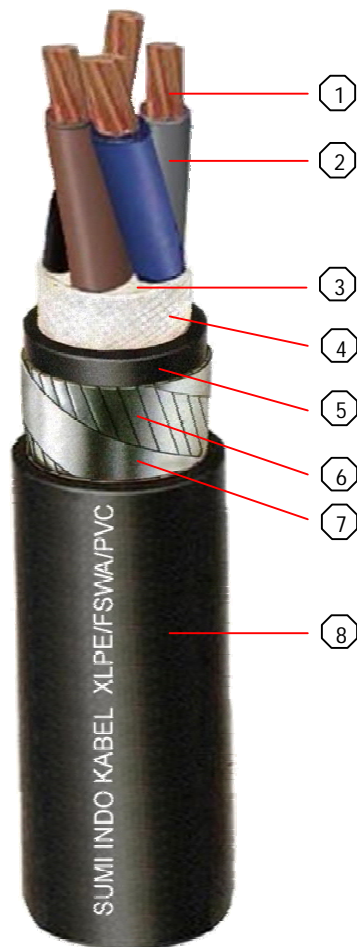


**600/1000 V XLPE INSULATED, FLAT STEEL WIRE ARMoured AND PVC SHEATHED CABLES**  
**XLPE/FSWA/PVC (acc. to IEC 60502-1)**



- ① Conductor (Annealed Copper)
- ② Insulation (XLPE Compound)
- ③ Filler (Polypropylene yarn, or extruded filler up to request)
- ④ Binding tape (Manufacturer's option)
- ⑤ Inner Covering (PVC Compound)
- ⑥ Galvanized Flat Steel Wire armour
- ⑦ Galvanized Steel Tape binding
- ⑧ Outer sheath (PVC Compound)

**Note : Special application upon request**

- \* Available product in accordance to : SPLN, ICEA/NEMA, AS standard or other requirement.
- \* Flame retardant test acc to IEC 60332-3 Cat. A, B or C.
- \* Anti termite performance.
- \* Tin coated Copper conductor.
- \* Polyethylene / Low smoke Halogen Free sheathed

**600/1000 V XLPE INSULATED, FLAT STEEL WIRE ARMoured AND PVC SHEATHED CABLES  
XLPE/FSWA/PVC (IEC 60502-1)**

**CONSTRUCTION**

|                       |  |
|-----------------------|--|
| <b>Conductor</b>      | : Plain Annealed Copper<br>(to IEC 60228 class 1 or 2) |
| <b>Insulation</b>     | : XLPE Compound  |
| <b>Filler</b>         | : Suitable material                                    |
| <b>Inner covering</b> | : PVC Compound   |
| <b>Armour</b>         | : Galvanized Flat Steel Wire+Steel tape open helix     |
| <b>Sheath</b>         | : PVC Compound type ST2                                |
| <b>Colour Ident.</b>  | : Insulation - Red,Black<br>Sheath - Black             |

**TECHNICAL DATA**

|                              |                                |
|------------------------------|--------------------------------|
| <b>Voltage</b>               | U <sub>0</sub> /U - 600/1000 V |
| <b>Operating Temperature</b> | Maximum 90°C                   |

**TWO CORES**

| Conductor                            |                      |                              |  | Nominal<br>Thickness<br>of<br>Insulation | Thickness<br>of Inner<br>covering<br>(approx.) | Nominal<br>thickness<br>of Galv.<br>Flat<br>Steel wire | Minimum<br>thickness<br>of Galv.<br>Steel tape | Nominal<br>Thickness<br>of<br>Sheath | Overall<br>diameter<br>of<br>cable<br>(approx.) | Weight<br>of<br>cable<br>(approx.) | Maximum<br>Conductor<br>Resistance<br>at 20°C |
|--------------------------------------|----------------------|------------------------------|--|--|--|--|--|--------------------------------------|---|------------------------------------|---|
| Nominal<br>Cross-<br>section<br>area | Shape<br>of<br>Cond. | Minimum<br>number<br>of wire | Diameter<br>of<br>Conductor<br>(approx.) |  |  |  |  |                                      |   |                                    |   |
| mm <sup>2</sup>                      | -                    | Number                       | mm                                       | mm                                       | mm   | mm   | mm   | mm                                   | mm  | kg/km                              | Ω/km  |
| 1.5                                  | RE                   | 1                            | 1.38                                     | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 14.0  | 365                                | 12.1  |
| 1.5                                  | RM                   | 7                            | 1.6                                      | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 14.0  | 400                                | 12.1  |
| 2.5                                  | RE                   | 1                            | 1.78                                     | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 14.5  | 430                                | 7.41  |
| 2.5                                  | RM                   | 7                            | 2.0                                      | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 15.0  | 435                                | 7.41  |
| 4                                    | RE                   | 1                            | 2.26                                     | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 15.5  | 505                                | 4.61  |
| 4                                    | RM                   | 7                            | 2.6                                      | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 16.0  | 515                                | 4.61  |
| 6                                    | RE                   | 1                            | 2.77                                     | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 16.5  | 575                                | 3.08  |
| 6                                    | RM                   | 7                            | 3.1                                      | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 17.0  | 600                                | 3.08  |
| 10                                   | RE                   | 1                            | 4.1                                      | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 19.0  | 745                                | 1.83  |
| 16                                   | CM                   | 6                            | 4.7                                      | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 20.5  | 900                                | 1.15  |
| 25                                   | CM                   | 6                            | 5.9                                      | 0.9                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 23.5  | 1190                               | 0.727   |
| 35                                   | CM                   | 6                            | 7.1                                      | 0.9                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 26.0  | 1475                               | 0.524   |
| 50                                   | CM                   | 6                            | 8.1                                      | 1.0                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 28.5  | 1805                               | 0.387   |
| 70                                   | CM                   | 12                           | 9.7                                      | 1.1                                      | 1.0  | 0.8  | 0.3  | 1.9                                  | 32.0  | 2330                               | 0.268   |
| 95                                   | CM                   | 15                           | 11.6                                     | 1.1                                      | 1.2  | 0.8  | 0.3  | 2.0                                  | 36.5  | 3035                               | 0.193   |
| 120                                  | CM                   | 18                           | 12.9                                     | 1.2                                      | 1.2  | 0.8  | 0.3  | 2.1                                  | 39.5  | 3635                               | 0.153   |
| 150                                  | CM                   | 18                           | 14.3                                     | 1.4                                      | 1.2  | 0.8  | 0.3  | 2.2                                  | 43.5  | 4385                               | 0.124   |
| 185                                  | CM                   | 30                           | 16.0                                     | 1.6                                      | 1.4  | 0.8  | 0.3  | 2.4                                  | 48.5  | 5345                               | 0.0991  |
| 240                                  | CM                   | 34                           | 18.3                                     | 1.7                                      | 1.4  | 0.8  | 0.3  | 2.6                                  | 54.0  | 6725                               | 0.0754  |
| 300                                  | CM                   | 34                           | 20.7                                     | 1.8                                      | 1.6  | 0.8  | 0.3  | 2.7                                  | 60.0  | 8225                               | 0.0601  |
| 400                                  | CM                   | 53                           | 23.4                                     | 2.0                                      | 1.6  | 0.8  | 0.3  | 3.0                                  | 66.5  | 10210                              | 0.0470  |

Note RE : Round Solid Class 1

RM : Circular Stranded Class 2

CM : Circular Stranded Compacted Class 2

**600/1000 V XLPE INSULATED, FLAT STEEL WIRE ARMoured AND PVC SHEATHED CABLES  
XLPE/FSWA/PVC (IEC 60502-1)**

| CONSTRUCTION          |  |  |  | TECHNICAL DATA               |                                  |  |  |
|-----------------------|--|--|--|------------------------------|----------------------------------|--|--|
| <b>Conductor</b>      | : Plain Annealed Copper<br>(to IEC 60228 class 1 or 2) |  |  | <b>Voltage</b>               | : U <sub>o</sub> /U - 600/1000 V |  |  |
| <b>Insulation</b>     | : XLPE Compound  |  |  | <b>Operating Temperature</b> | : Maximum 90°C                   |  |  |
| <b>Filler</b>         | : Suitable material                                    |  |  |                              |                                  |  |  |
| <b>Inner covering</b> | : PVC Compound   |  |  |                              |                                  |  |  |
| <b>Armour</b>         | : Galvanized Flat Steel Wire+Steel tape open helix     |  |  |                              |                                  |  |  |
| <b>Sheath</b>         | : PVC Compound type ST2                                |  |  |                              |                                  |  |  |
| <b>Colour Ident.</b>  | : Insulation - Red, Yellow, Blue<br>Sheath - Black     |  |  |                              |                                  |  |  |

**THREE CORES**

| Conductor                  |                |                        |                                 | Nominal Thickness of Insulation | Thickness of Inner covering (approx.) | Nominal thickness of Galv. Flat Steel wire | Minimum thickness of Galv. Steel tape | Nominal Thickness of Sheath | Overall diameter of cable (approx.) | Weight of cable (approx.) | Maximum Conductor Resistance at 20°C |
|----------------------------|----------------|------------------------|---------------------------------|---------------------------------|---------------------------------------|--|---------------------------------------|-----------------------------|-------------------------------------|---------------------------|--------------------------------------|
| Nominal Cross-section area | Shape of Cond. | Minimum number of wire | Diameter of Conductor (approx.) |                                 |                                       |  |                                       |                             |                                     |                           |                                      |
| mm <sup>2</sup>            | -              | Number                 | mm                              | mm                              | mm                                    | mm   | mm                                    | mm                          | kg/km                               | Ω/km                      |                                      |
| 1.5                        | RE             | 1                      | 1.38                            | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 14.5                                | 420                       | 12.1                                 |
| 1.5                        | RM             | 7                      | 1.6                             | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 14.5                                | 430                       | 12.1                                 |
| 2.5                        | RE             | 1                      | 1.78                            | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 15.0                                | 460                       | 7.41                                 |
| 2.5                        | RM             | 7                      | 2.0                             | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 15.5                                | 500                       | 7.41                                 |
| 4                          | RE             | 1                      | 2.26                            | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 16.0                                | 555                       | 4.61                                 |
| 4                          | RM             | 7                      | 2.6                             | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 17.0                                | 595                       | 4.61                                 |
| 6                          | RE             | 1                      | 2.77                            | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 17.5                                | 665                       | 3.08                                 |
| 6                          | RM             | 7                      | 3.1                             | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 18.0                                | 675                       | 3.08                                 |
| 10                         | RE             | 1                      | 4.1                             | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 20.0                                | 885                       | 1.83                                 |
| 16                         | CM             | 6                      | 4.7                             | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 21.5                                | 1090                      | 1.15                                 |
| 25                         | CM             | 6                      | 5.9                             | 0.9                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 25.0                                | 1470                      | 0.727                                |
| 35                         | CM             | 6                      | 7.1                             | 0.9                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 27.5                                | 1845                      | 0.524                                |
| 50                         | CM             | 6                      | 8.1                             | 1.0                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 30.0                                | 2285                      | 0.387                                |
| 70                         | CM             | 12                     | 9.7                             | 1.1                             | 1.2                                   | 0.8  | 0.3                                   | 2.0                         | 34.5                                | 3070                      | 0.268                                |
| 95                         | CM             | 15                     | 11.6                            | 1.1                             | 1.2                                   | 0.8  | 0.3                                   | 2.1                         | 39.0                                | 3990                      | 0.193                                |
| 120                        | CM             | 18                     | 12.9                            | 1.2                             | 1.2                                   | 0.8  | 0.3                                   | 2.2                         | 42.0                                | 4820                      | 0.153                                |
| 150                        | CM             | 18                     | 14.3                            | 1.4                             | 1.4                                   | 0.8  | 0.3                                   | 2.3                         | 46.5                                | 5875                      | 0.124                                |
| 185                        | CM             | 30                     | 16.0                            | 1.6                             | 1.4                                   | 0.8  | 0.3                                   | 2.4                         | 52.0                                | 7165                      | 0.0991                               |
| 240                        | CM             | 34                     | 18.3                            | 1.7                             | 1.6                                   | 0.8  | 0.3                                   | 2.7                         | 58.0                                | 9125                      | 0.0754                               |
| 300                        | CM             | 34                     | 20.7                            | 1.8                             | 1.6                                   | 0.8  | 0.3                                   | 2.8                         | 64.0                                | 11130                     | 0.0601                               |

Note RE : Round Solid Class 1  
 RM : Circular Stranded Class 2  
 CM : Circular Stranded Compacted Class 2

**600/1000 V XLPE INSULATED, FLAT STEEL WIRE ARMoured AND PVC SHEATHED CABLES  
XLPE/FSWA/PVC (IEC 60502-1)**

**CONSTRUCTION**

**Conductor** : Plain Annealed Copper  
(to IEC 60228 class 1 or 2)

**Insulation** : XLPE Compound

**Filler** : Suitable material

**Inner covering** : PVC Compound

**Armour** : Galvanized Flat Steel Wire+Steel tape open helix

**Sheath** : PVC Compound type ST2

**Colour Ident.** : Insulation - Red, Yellow, Blue, Black  
Sheath - Black

**TECHNICAL DATA**

**Voltage**  
U<sub>0</sub>/U - 600/1000 V

**Operating Temperature**  
Maximum 90°C

**FOUR CORES**

| Conductor                            |                      |                              |  | Nominal<br>Thickness<br>of<br>Insulation | Thickness<br>of Inner<br>covering<br>(approx.) | Nominal<br>thickness<br>of Galv.<br>Flat<br>Steel wire | Minimum<br>thickness<br>of Galv.<br>Steel tape | Nominal<br>Thickness<br>of<br>Sheath | Overall<br>diameter<br>of<br>cable<br>(approx.) | Weight<br>of<br>cable<br>(approx.) | Maximum<br>Conductor<br>Resistance<br>at 20°C |
|--------------------------------------|----------------------|------------------------------|--|--|--|--|--|--------------------------------------|---|------------------------------------|---|
| Nominal<br>Cross-<br>section<br>area | Shape<br>of<br>Cond. | Minimum<br>number<br>of wire | Diameter<br>of<br>Conductor<br>(approx.) |  |  |  |  |                                      |   |                                    |   |
| mm <sup>2</sup>                      | -                    | Number                       | mm                                       | mm                                       | mm   | mm   | mm   | mm                                   | mm  | kg/km                              | Ω/km  |
| 1.5                                  | RE                   | 1                            | 1.38                                     | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 15.0  | 450                                | 12.1  |
| 1.5                                  | RM                   | 7                            | 1.6                                      | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 15.5  | 485                                | 12.1  |
| 2.5                                  | RE                   | 1                            | 1.78                                     | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 16.0  | 535                                | 7.41  |
| 2.5                                  | RM                   | 7                            | 2.0                                      | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 16.5  | 545                                | 7.41  |
| 4                                    | RE                   | 1                            | 2.26                                     | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 17.0  | 640                                | 4.61  |
| 4                                    | RM                   | 7                            | 2.6                                      | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 18.0  | 660                                | 4.61  |
| 6                                    | RE                   | 1                            | 2.77                                     | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 18.5  | 645                                | 3.08  |
| 6                                    | RM                   | 7                            | 3.1                                      | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 19.0  | 785                                | 3.08  |
| 10                                   | RE                   | 1                            | 4.1                                      | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 21.5  | 1040                               | 1.83  |
| 16                                   | CM                   | 6                            | 4.7                                      | 0.7                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 23.0  | 1295                               | 1.15  |
| 25                                   | CM                   | 6                            | 5.9                                      | 0.9                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 27.0  | 1795                               | 0.727   |
| 35                                   | CM                   | 6                            | 7.1                                      | 0.9                                      | 1.0  | 0.8  | 0.3  | 1.8                                  | 30.0  | 2265                               | 0.524   |
| 50                                   | CM                   | 6                            | 8.1                                      | 1.0                                      | 1.0  | 0.8  | 0.3  | 1.9                                  | 32.5  | 2830                               | 0.387   |
| 70                                   | CM                   | 12                           | 9.7                                      | 1.1                                      | 1.2  | 0.8  | 0.3  | 2.1                                  | 38.0  | 3840                               | 0.268   |
| 95                                   | CM                   | 15                           | 11.6                                     | 1.1                                      | 1.2  | 0.8  | 0.3  | 2.2                                  | 42.5  | 5015                               | 0.193   |
| 120                                  | CM                   | 18                           | 12.9                                     | 1.2                                      | 1.4  | 0.8  | 0.3  | 2.3                                  | 47.0  | 6145                               | 0.153   |
| 150                                  | CM                   | 18                           | 14.3                                     | 1.4                                      | 1.4  | 0.8  | 0.3  | 2.5                                  | 51.5  | 7450                               | 0.124   |
| 185                                  | CM                   | 30                           | 16.0                                     | 1.6                                      | 1.4  | 0.8  | 0.3  | 2.7                                  | 57.5  | 9125                               | 0.0991  |
| 240                                  | CM                   | 34                           | 18.3                                     | 1.7                                      | 1.6  | 0.8  | 0.3  | 2.9                                  | 64.0  | 11670                              | 0.0754  |
| 300                                  | CM                   | 34                           | 20.7                                     | 1.8                                      | 1.6  | 0.8  | 0.3  | 3.1                                  | 70.5  | 14270                              | 0.0601  |

Note RE : Round Solid Class 1

RM : Circular Stranded Class 2

CM : Circular Stranded Compacted Class 2

**600/1000 V XLPE INSULATED, FLAT STEEL WIRE ARMoured AND PVC SHEATHED CABLES  
XLPE/FSWA/PVC (IEC 60502-1)**

**CONSTRUCTION**

**Conductor** : Plain Annealed Copper  
(to IEC 60228 class 1 or 2)

**Insulation** : XLPE Compound

**Filler** : Suitable material

**Inner covering** : XLPE Compound

**Armour** : Galvanized Flat Steel Wire+Steel tape open helix

**Sheath** : PVC Compound type ST2

**Colour Ident.** : Insulation - Black with numbering code  
Sheath - Black

**TECHNICAL DATA**

**Voltage**  
U<sub>0</sub>/U - 600/1000 V

**Operating Temperature**  
Maximum 90°C

**FIVE CORES**

| Conductor                  |                |                        |                                 | Nominal Thickness of Insulation | Thickness of Inner covering (approx.) | Nominal thickness of Galv. Flat Steel wire | Minimum thickness of Galv. Steel tape | Nominal Thickness of Sheath | Overall diameter of cable (approx.) | Weight of cable (approx.) | Maximum Conductor Resistance at 20°C |
|----------------------------|----------------|------------------------|---------------------------------|---------------------------------|---------------------------------------|--|---------------------------------------|-----------------------------|-------------------------------------|---------------------------|--------------------------------------|
| Nominal Cross-section area | Shape of Cond. | Minimum number of wire | Diameter of Conductor (approx.) |                                 |                                       |  |                                       |                             |                                     |                           |                                      |
| mm <sup>2</sup>            | -              | Number                 | mm                              | mm                              | mm                                    | mm   | mm                                    | mm                          | kg/km                               | Ω/km                      |                                      |
| 1.5                        | RE             | 1                      | 1.38                            | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 16.0                                | 510                       | 12.1                                 |
| 1.5                        | RM             | 7                      | 1.6                             | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 16.5                                | 520                       | 12.1                                 |
| 2.5                        | RE             | 1                      | 1.78                            | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 17.0                                | 605                       | 7.41                                 |
| 2.5                        | RM             | 7                      | 2.0                             | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 17.5                                | 615                       | 7.41                                 |
| 4                          | RE             | 1                      | 2.26                            | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 18.5                                | 730                       | 4.61                                 |
| 4                          | RM             | 7                      | 2.6                             | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 19.0                                | 750                       | 4.61                                 |
| 6                          | RE             | 1                      | 2.77                            | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 20.0                                | 875                       | 3.08                                 |
| 6                          | RM             | 7                      | 3.1                             | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 20.5                                | 900                       | 3.08                                 |
| 10                         | RE             | 1                      | 4.1                             | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 23.0                                | 1200                      | 1.83                                 |
| 16                         | CM             | 6                      | 4.7                             | 0.7                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 25.0                                | 1512                      | 1.15                                 |
| 25                         | CM             | 6                      | 5.9                             | 0.9                             | 1.0                                   | 0.8  | 0.3                                   | 1.8                         | 29.0                                | 2100                      | 0.727                                |
| 35                         | CM             | 6                      | 7.1                             | 0.9                             | 1.0                                   | 0.8  | 0.3                                   | 1.9                         | 32.5                                | 2700                      | 0.524                                |
| 50                         | CM             | 6                      | 8.1                             | 1.0                             | 1.2                                   | 0.8  | 0.3                                   | 2.0                         | 36.0                                | 3435                      | 0.387                                |

Note RE : Round Solid Class 1  
RM : Circular Stranded Class 2  
CM : Circular Stranded Compacted Class 2