

CABLE STANDARDS

IEC 60502-2 , ISIRI 3569-2 , IEC 60228, IEC 60332-1-2



APPLICATION

To be laid directly in ground, outdoors, indoors and in cable ducts. Medium voltage cables for distribution networks, also for connection to generation units and and also for places where plant and process connection there are mechanical stresses

CONSTRUCTION

Conductor

Class 2 stranded copper conductor

Inner Semi-Conductive Layer

Semi-conductive material

Insulation

XLPE (Cross-Linked Polyethylene)

Outer Semi-Conductive Layer

Semi-conductive material

Screen

Copper wires with copper tape

Bedding

PVC (Polyvinyl Chloride)

Armour

Steel (Galvanized) Wire

Sheath

PVC (Polyvinyl Chloride)

CHARACTERISTICS

Voltage Rating (U₀,U) (Um)

18/30 (36) kV

Test Voltage

63 KV

Temperature Rating

-20°C to +90°C

Short Circuit Temperature

+250°C

Minimum Bending Radius

15 x Overall Diameter

Sheath Color

Red

N2XSYRY

CU/SC/ XLPE/ SC/ SCT/ CWS/ PVC/ SWA/ PVC – 18/30 (36) kV Cable

Technical Specifications

| NO. OF CORES | NOMINAL CROSS SECTIONAL AREA | | Max DC Conduc tor Resista nce at 20°C Ω.km | Short- circuit Current KA 1.sec Approx | CURRENT CARRYING CAPACITY | | | | Capacitance μf.km Approx | Reactance Ω.km Approx | | OVERALL DIAMETER Mm Approx | WEIGHT kg.km Approx | |
|-----------------|---------------------------------------|---------------------------|--|---|------------------------------|------|---------|--------|------------------------------------|---------------------------------|------|-------------------------------------|---------------------------|-----|
| | Conductor mm ² | Screen mm ² | | | Amps Approx | | Trefoil | Flat | | Trefoil | Flat | | | |
| | | | | | Ground | Air | | Ground | | | | | | Air |
| | | | | | | | | | | | | | | |
| 3 | 25 | 16 | 0.727 | 3.72 | 135 | 138 | 150 | 141 | 0.10 | 0.22 | 0.30 | 75.0 | 9516 | |
| 3 | 35 | 16 | 0.524 | 5.18 | 180 | 188 | 201 | 210 | 0.11 | 0.22 | 0.29 | 78.1 | 10298 | |
| 3 | 50 | 16 | 0.387 | 7.36 | 226 | 241 | 251 | 279 | 0.12 | 0.20 | 0.28 | 79.8 | 10916 | |
| 3 | 70 | 16 | 0.268 | 10.26 | 276 | 299 | 306 | 348 | 0.13 | 0.20 | 0.27 | 84.3 | 12588 | |
| 3 | 95 | 16 | 0.193 | 13.88 | 329 | 362 | 363 | 421 | 0.15 | 0.19 | 0.27 | 88.9 | 14403 | |
| 3 | 120 | 16 | 0.153 | 17.49 | 373 | 416 | 410 | 483 | 0.16 | 0.18 | 0.26 | 93.1 | 16165 | |
| 3 | 150 | 25 | 0.124 | 21.82 | 415 | 469 | 449 | 540 | 0.17 | 0.18 | 0.26 | 97.4 | 18245 | |
| 3 | 185 | 25 | 0.0991 | 26.87 | 468 | 536 | 503 | 615 | 0.19 | 0.18 | 0.25 | 101.7 | 20242 | |
| 3 | 240 | 25 | 0.0754 | 34.80 | 541 | 630 | 576 | 718 | 0.21 | 0.17 | 0.25 | 108.0 | 23607 | |
| 3 | 300 | 25 | 0.0601 | 43.43 | 608 | 717 | 641 | 812 | 0.22 | 0.17 | 0.25 | 113.2 | 26817 | |
| 3 | 400 | 35 | 0.0470 | 57.82 | 684 | 823 | 697 | 904 | 0.25 | 0.16 | 0.24 | 121.9 | 31905 | |
| 3 | 500 | 35 | 0.0366 | 72.20 | 762 | 929 | 768 | 1011 | 0.27 | 0.16 | 0.24 | 130.9 | 37844 | |
| 3 | 630 | 35 | 0.0283 | 90.88 | 842 | 1039 | 849 | 1121 | 0.30 | 0.16 | 0.23 | 144.7 | 46714 | |