



CABLE STRUCTURE

| | |
|-------------------|---|
| Conductor | Electrolytic, stranded, annealed copper wire IEC 60228 Class 2 (Class 5 and / or tinned on request) |
| Conductor Screen | Semiconductive layer |
| Insulation | HF HEPR Compound |
| Insulation Screen | Semiconductive layer |
| Core Screen | Copper Tape |
| Bedding | Halogen-free bedding compound |
| Screen | Electrolytic copper braided screen (90% coverage) (Tinned copper wire braid on request) |
| Outer Sheath | Halogen-free, flame retardant, polyolefin compound, SHF 1 (SHF2 on request) |
| Color | Red |

STANDARDS & MAIN CHARACTERISTICS

| | |
|---|--|
| Construction | IEC 60092 / 354 |
| Tests And Material | IEC 60092 / 350-360 |
| Flame Retardant | IEC 60332 / 1-2, IEC 60332 / 3-22 Cat A |
| Halogen Content | IEC 60754 / 1-2 |
| Smoke Emission | IEC 61034 / 1-2 (DIN EN 50268 / 1-2) |
| Ozon Resistance | IEC 60811 / 403 |
| Shielding Effectiveness (For Emc Type) | DIN EN 50147-1 |
| Working Temperature | -40°C / + 90°C |
| Min. Bending Radius (fixed) | For Single Core Cables 12 x D For 3 Core Cables 9 x D |
| Rated Voltage | 8,7 / 15 kV |
| Test Voltage | 30,5 kV |

Minimum recommended installation temperature -15°C

For core identification, diameter tolerances and current ratings etc. see technical information section

Application

Medium Voltage power distribution, electric power transport between the engine room generator and electrical machines. Used as fixed installation cables in various electromechanical and electronic equipments. Due to its' overall screen the electromagnetic interference is minimized.



Halogen Free



Low Smoke Density



Flame Retardant



Rated Voltage



Test Voltage



Working Temperature



Bending Radius



No Corrosivity

| Cross Section (mm ²) | Nominal Overall Diameter (mm) | Approximate Weight (kg / km) | Min. Bending Radius Fixed Installed (mm) | Max Resistance of Conductors at 20°C (ohm / km) | Current Carrying Capacity at 45°C (A) |
|----------------------------------|-------------------------------|------------------------------|--|---|---------------------------------------|
| 1 x 25 | 25,5-29,5 | 1100 | 354 | 0,727 | 127 |
| 1 x 35 | 27,0-31,3 | 1260 | 376 | 0,524 | 157 |
| 1 x 50 | 29,1-33,7 | 1490 | 404 | 0,387 | 196 |
| 1 x 70 | 29,6-34,3 | 1700 | 412 | 0,268 | 242 |
| 1 x 95 | 31,3-36,2 | 2000 | 434 | 0,193 | 293 |
| 1 x 120 | 33,9-39,2 | 2420 | 470 | 0,153 | 339 |
| 1 x 150 | 35,8-41,4 | 2840 | 496 | 0,124 | 389 |
| 1 x 185 | 37,6-43,5 | 3250 | 522 | 0,0991 | 444 |
| 1 x 240 | 40,3-46,7 | 3970 | 560 | 0,0754 | 522 |
| 1 x 300 | 42,6-49,3 | 4650 | 592 | 0,0601 | 601 |
| 3 x 25 | 49,2-56,9 | 3900 | 512 | 0,727 | 89 |
| 3 x 35 | 52,2-60,4 | 4450 | 544 | 0,524 | 110 |
| 3 x 50 | 54,5-63,0 | 5070 | 567 | 0,387 | 137 |
| 3 x 70 | 58,1-67,3 | 6030 | 606 | 0,268 | 169 |
| 3 x 95 | 62,0-71,8 | 7220 | 646 | 0,193 | 205 |
| 3 x 120 | 65,0-75,3 | 8300 | 678 | 0,153 | 237 |
| 3 x 150 | 69,9-80,9 | 9600 | 728 | 0,124 | 272 |
| 3 x 185 | 73,8-85,4 | 11150 | 768 | 0,0991 | 311 |
| 3 x 240 | 79,1-91,6 | 13550 | 824 | 0,0754 | 365 |
| 3 x 300 | 85,0-98,4 | 16300 | 886 | 0,0601 | 421 |