

H07V-K

CU/PVC - 450/750 V Wire

CABLE STANDARDS

ISIRI 607-2 , ISIRI 607-6 , IEC 60227,



APPLICATION

Wires is used in covered, dry places, in fixed plants, in distribution panels, on and under plaster as laid in conduit or on insulating support. For indoor fixed installations in dry locations, in switchboards and distributors. It should be installed in surface mounted or embedded conduits, or directly on suitably insulated objects.

CONSTRUCTION

Conductor

Class 5 or stranded copper conductors

Insulation

PVC (Polyvinyl Chloride)

CHARACTERISTICS

Voltage Rating (U_0/U) (Um)

450/750

Test Voltage

2500 V

Temperature Rating

Fixed: -20°C to +70°C

Flexed: -5°C to +70°C

Short Circuit Temperature

+160°C

Minimum Bending Radius

15 x Overall Diameter for Single Core

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CU/PVC - 450/750 V Wire

Technical Specifications

| NO. OF CORES | NOMINAL CROSS SECTIONAL AREA | | Max DC Conductor Resistance at 20°C Ω.km | Short-circuit Current KA 1.sec Approx | Capacitance μf.km Approx | Reactance Ω.km Approx | | OVERALL DIAMETER Mm Approx | WEIGHT kg.km Approx |
|--------------|------------------------------|------|---|---|--------------------------------|-----------------------------|------|----------------------------------|---------------------------|
| | Conductor mm ² | | | | | Trefoil | Flat | | |
| 1 | 0.5 | RM.F | 39.0 | 0.057 | 0.38 | 0.11 | 0.17 | 2.0 | 9 |
| 1 | 0.75 | RM.F | 26.0 | 0.086 | 0.40 | 0.11 | 0.18 | 2.4 | 11 |
| 1 | 1 | RM.F | 19.5 | 0.115 | 0.42 | 0.11 | 0.19 | 2.5 | 14 |
| 1 | 1.5 | RM.F | 13.3 | 0.173 | 0.39 | 0.11 | 0.19 | 2.9 | 20 |
| 1 | 2.5 | RM.F | 7.98 | 0.288 | 0.44 | 0.11 | 0.18 | 3.6 | 31 |
| 1 | 4 | RM.F | 4.95 | 0.460 | 0.57 | 0.10 | 0.18 | 4.2 | 46 |
| 1 | 6 | RM.F | 3.30 | 0.690 | 0.54 | 0.10 | 0.18 | 4.7 | 63 |
| 1 | 10 | RM.F | 1.91 | 1.150 | 0.54 | 0.10 | 0.18 | 6.1 | 107 |
| 1 | 16 | RM.F | 1.21 | 1.840 | 0.86 | 0.08 | 0.16 | 7.5 | 173 |
| 1 | 25 | RM.F | 0.780 | 2.875 | 0.89 | 0.08 | 0.16 | 9.2 | 268 |
| 1 | 35 | RM.F | 0.554 | 4.025 | 1.04 | 0.08 | 0.16 | 10.5 | 360 |
| 1 | 50 | RM.F | 0.386 | 5.750 | 1.07 | 0.08 | 0.15 | 12.6 | 515 |
| 1 | 70 | RM.F | 0.272 | 8.050 | 1.24 | 0.08 | 0.15 | 14.4 | 667 |
| 1 | 95 | RM.F | 0.206 | 10.925 | 1.29 | 0.07 | 0.15 | 16.9 | 927 |
| 1 | 120 | RM.F | 0.161 | 13.801 | 1.42 | 0.07 | 0.15 | 18.4 | 1141 |
| 1 | 150 | RM.F | 0.129 | 17.251 | 1.41 | 0.07 | 0.15 | 20.6 | 1416 |
| 1 | 185 | RM.F | 0.106 | 21.276 | 1.40 | 0.07 | 0.15 | 22.7 | 1711 |
| 1 | 240 | RM.F | 0.0801 | 27.601 | 1.46 | 0.07 | 0.15 | 25.9 | 2257 |

H07V-R

CU/PVC - 450/750 V Wire

CABLE STANDARDS

, ISIRI 607-2 , IEC 60227,



APPLICATION

Wire wire, whose conductor is single-stranded and has much less flexibility than wire spreader, Similar its insulation wire spreader, is PVC type C.

CONSTRUCTION

Conductor

Class 2 or stranded copper conductors

Insulation

PVC (Polyvinyl Chloride)

CHARACTERISTICS

Voltage Rating (U₀U) (Um)

450/750

Test Voltage

2500 V

Temperature Rating

Fixed: -20°C to +70°C

Flexed: -5°C to +70°C

Short Circuit Temperature

+160°C

Minimum Bending Radius

15 x Overall Diameter for Single Core

H07V-R

CU/PVC - 450/750 V Wire

Technical Specifications

| NO. OF CORES | NOMINAL CROSS SECTIONAL AREA | | Max DC Conductor Resistance at 20°C Ω.km | Short-circuit Current KA 1.sec Approx | Capacitance μf.km Approx | Reactance Ω.km Approx | | OVERALL DIAMETER Mm Approx | WEIGHT kg.km Approx |
|--------------|------------------------------|------|---|---|--------------------------------|-----------------------------|------|----------------------------------|---------------------------|
| | Conductor mm ² | | | | | Trefoil | Flat | | |
| 1 | 16 | RM.V | 1.15 | 1.909 | 0.75 | 0.09 | 0.16 | 6.8 | 170 |
| 1 | 25 | RM.V | 0.727 | 2.961 | 0.79 | 0.09 | 0.16 | 8.4 | 260 |
| 1 | 35 | RM.V | 0.524 | 4.126 | 0.92 | 0.08 | 0.16 | 9.5 | 351 |
| 1 | 50 | RM.V | 0.387 | 5.870 | 0.91 | 0.08 | 0.16 | 10.9 | 465 |
| 1 | 70 | RM.V | 0.268 | 8.192 | 1.06 | 0.08 | 0.15 | 12.5 | 659 |
| 1 | 95 | RM.V | 0.193 | 11.090 | 1.09 | 0.08 | 0.15 | 14.6 | 907 |
| 1 | 120 | RM.V | 0.153 | 13.985 | 1.22 | 0.07 | 0.15 | 16.1 | 1134 |
| 1 | 150 | RM.V | 0.124 | 17.457 | 1.21 | 0.07 | 0.15 | 17.9 | 1400 |
| 1 | 185 | RM.V | 0.101 | 21.505 | 1.21 | 0.07 | 0.15 | 19.9 | 1743 |
| 1 | 240 | RM.V | 0.0775 | 27.862 | 1.26 | 0.07 | 0.15 | 22.7 | 2281 |

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APPLICATION

Wire wire, whose conductor is single- Solid and has much less flexibility than wire spreader, Similar its insulation wire spreader, is PVC type C.

CONSTRUCTION

Conductor

Class 1 copper conductors

Insulation

PVC (Polyvinyl Chloride)

CHARACTERISTICS

Voltage Rating (U₀.U) (Um)

450/750

Test Voltage

2500 V

Temperature Rating

Fixed: -20°C to +70°C

Flexed: -5°C to +70°C

Short Circuit Temperature

+160°C

Minimum Bending Radius

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|--------------|------------------------------|----|---|---|--------------------------------|-----------------------------|------|----------------------------------|---------------------------|
| | Conductor mm ² | | | | | Trefoil | Flat | | |
| 1 | 1 | RE | 12.1 | 0.134 | 0.38 | 0.11 | 0.19 | 2.5 | 15 |
| 1 | 1.5 | RE | 7.41 | 0.195 | 0.39 | 0.11 | 0.19 | 2.9 | 21 |
| 1 | 2.5 | RE | 4.61 | 0.316 | 0.42 | 0.11 | 0.19 | 3.5 | 32 |
| 1 | 4 | RE | 3.08 | 0.495 | 0.50 | 0.10 | 0.18 | 3.9 | 47 |
| 1 | 6 | RE | 1.83 | 0.733 | 0.58 | 0.10 | 0.18 | 4.4 | 66 |
| 1 | 10 | RE | 12.1 | 1.205 | 0.60 | 0.10 | 0.17 | 5.6 | 108 |