**NUHAS OMAN LLC**
TECHNICAL PARTICULAR
PVC INSULATED SINGLE CORE WIRE

No.: TP/SCW/H07VR/STD/02
Date: 12/01/2013

| DESCRIPTION | UNIT | 1 x 150 mm2 | 1 x 185 mm2 | 1 x 240 mm2 |
|---|---|---|---|---|
| **1. General** | | | | |
| Voltage grade | V | 450/750 | 450/750 | 450/750 |
| Ref. Standard | | BS EN 50525-2-31 | BS EN 50525-2-31 | BS EN 50525-2-31 |
| Cable type | | CU/PVC | CU/PVC | CU/PVC |
| Harmonized code | | H07V-R | H07V-R | H07V-R |
| No. of core | no. | 1 | 1 | 1 |
| Nom. Cross sectional area | mm2 | 150 | 185 | 240 |
| Max. operating temperature | deg.c | 70 | 70 | 70 |
| **2. Conductor** | | | | |
| Material | | Annealed plain Copper | Annealed plain Copper | Annealed plain Copper |
| Class (BS EN 60228) | | Class 2 | Class 2 | Class 2 |
| Shape of conductor | | Round | Round | Round |
| No. & nom. diameter of strands | nos/mm | 19/3.27 | 37/2.65 | 37/2.97 |
| Diameter of Conductor, nom | mm | 14.6 | 16.0 | 18.4 |
| **3. Insulation** | | | | |
| Material (BS EN 50363-3:2005) | | PVC TI-1 | PVC TI-1 | PVC TI-1 |
| Thickness, nom | mm | 1.8 | 2.0 | 2.2 |
| Cable diameter, nom | mm | 18.3 | 20.1 | 22.9 |
| Cable diameter, max | mm | 20.9 | 23.3 | 26.6 |
| **4. Weight of Cable, approx** | kg/km | 1415 | 1775 | 2320 |
| **5. Packaging** | | | | |
| Std packing | | W. Drum | W. Drum | W. Drum |
| Packing Length with tolerance | | 1000mtrs±5% | 1000mtrs±5% | 1000mtrs±5% |
| **6. Electrical parameters** | | | | |
| DC Resistance of conductor, max | Ω/km | 0.124 | 0.0991 | 0.0754 |
| Current Carraying Capacity, 1 ph ac or dc (in conduit or trunking) at 30°C | A | 300 | 341 | 400 |
| Current Carraying Capacity 3 ph ac (in conduit or trunking) at 30°C | A | 262 | 296 | 346 |
| Voltage drop, approximate | mV/A/m | 0.31 | 0.25 | 0.195 |