



NUHAS OMAN LLC
TECHNICAL PARTICULAR
PVC INSULATED SINGLE CORE WIRE

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

DESCRIPTION	UNIT	1 x 6 mm ²	1 x 10 mm ²	1 x 16 mm ²
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	mm ²	6	10	16
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	7/1.04	7/1.34	7/1.78
Diameter of Conductor, nom	mm	3.12	4.02	4.8
3. Insulation				
Material (BS EN 50363-3:2005)		PVC TI-1	PVC TI-1	PVC TI-1
Thickness, nom	mm	0.8	1.0	1.0
Cable diameter, nom	mm	4.8	6.1	6.8
Cable diameter, max	mm	5.2	6.7	7.8
4. Weight of Cable, approx	kg/km	66	115	175
5. Packaging				
Std packing		Coil	Coil	W. Drum
Packing Length with tolerance		100 yds	100 yds	1000mtrs±5%
6. Electrical parameters				
DC Resistance of conductor, max	Ω/km	3.08	1.83	1.15
Current Carrying Capacity, 1 ph ac or dc (in conduit or trunking) at 30°C	A	41	57	76
Current Carrying Capacity 3 ph ac (in conduit or trunking) at 30°C	A	36	50	68
Voltage drop, approximate	mV/A/m	7.3	4.4	2.8

