



NUHAS OMAN LLC
TECHNICAL PARTICULAR
PVC INSULATED SINGLE CORE WIRE

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

DESCRIPTION	UNIT	1 x 70 mm ²	1 x 95 mm ²	1 x 120 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	70	95	120
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	19/2.24	19/2.65	19/2.97
Diameter of Conductor, nom	mm	9.7	11.4	12.9
3. Insulation				
Material (BS EN 50363-3:2005)		PVC TI-1	PVC TI-1	PVC TI-1
Thickness, nom	mm	1.4	1.6	1.6
Cable diameter, nom	mm	12.6	14.7	16.2
Cable diameter, max	mm	14.6	17.1	18.8
4. Weight of Cable, approx				
	kg/km	670	925	1150
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	0.268	0.193	0.153
Current Carrying Capacity, 1 ph ac or dc (in conduit or trunking) at 30°C	A	192	232	269
Current Carrying Capacity 3 ph ac (in conduit or trunking) at 30°C	A	171	207	239
Voltage drop, approximate	mV/A/m	0.65	0.49	0.39

