



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

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

DESCRIPTION	UNIT	1 x 300 mm <sup>2</sup>	1 x 400 mm <sup>2</sup>	1 x 500 mm <sup>2</sup>
<b>1. General</b>				
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 <sup>2</sup>	300	400	500
Max. operating temperature	deg.c	70	70	70
<b>2. Conductor</b>				
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	61/2.65	61/2.93	61/3.27
Diameter of Conductor, nom	mm	20.6	23.3	26.3
<b>3. Insulation</b>				
Material (BS EN 50363-3:2005)		PVC TI-1	PVC TI-1	PVC TI-1
Thickness, nom	mm	2.4	2.6	2.8
Cable diameter, nom	mm	25.5	28.6	32.0
Cable diameter, max	mm	29.6	33.2	36.9
<b>4. Weight of Cable, approx</b>				
	kg/km	2895	3695	4720
<b>5. Packaging</b>				
Std packing		W. Drum	W. Drum	W. Drum
Packing Length with tolerance		1000mtrs±5%	1000mtrs±5%	500mtrs±5%
<b>6. Electrical parameters</b>				
DC Resistance of conductor, max	Ω/km	0.0601	0.0470	0.0366
Current Carrying Capacity, 1 ph ac or dc (in conduit or trunking) at 30°C	A	458	546	626
Current Carrying Capacity 3 ph ac (in conduit or trunking) at 30°C	A	394	467	533
Voltage drop, approximate	mV/A/m	0.16	0.13	0.11

