



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

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

DESCRIPTION	UNIT	1 x 1.5 mm <sup>2</sup>	1 x 2.5 mm <sup>2</sup>	1 x 4 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>	1.5	2.5	4
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	7/0.53	7/0.67	7/0.84
Diameter of Conductor, nom	mm	1.59	2.01	2.52
<b>3. Insulation</b>				
Material (BS EN 50363-3:2005)		PVC TI-1	PVC TI-1	PVC TI-1
Thickness, nom	mm	0.7	0.8	0.8
Cable diameter, nom	mm	3.0	3.7	4.2
Cable diameter, max	mm	3.3	4.0	4.6
<b>4. Weight of Cable, approx</b>				
	kg/km	21	32	47
<b>5. Packaging</b>				
Std packing		Coil	Coil	Coil
Packing Length with tolerance		100 yds	100 yds	100 yds
<b>6. Electrical parameters</b>				
DC Resistance of conductor, max	Ω/km	12.1	7.41	4.61
Current Carrying Capacity, 1 ph ac or dc (in conduit or trunking) at 30°C	A	17.5	24	32
Current Carrying Capacity 3 ph ac (in conduit or trunking) at 30°C	A	15.5	21	28
Voltage drop, approximate	mV/A/m	29.0	18.0	11.0

