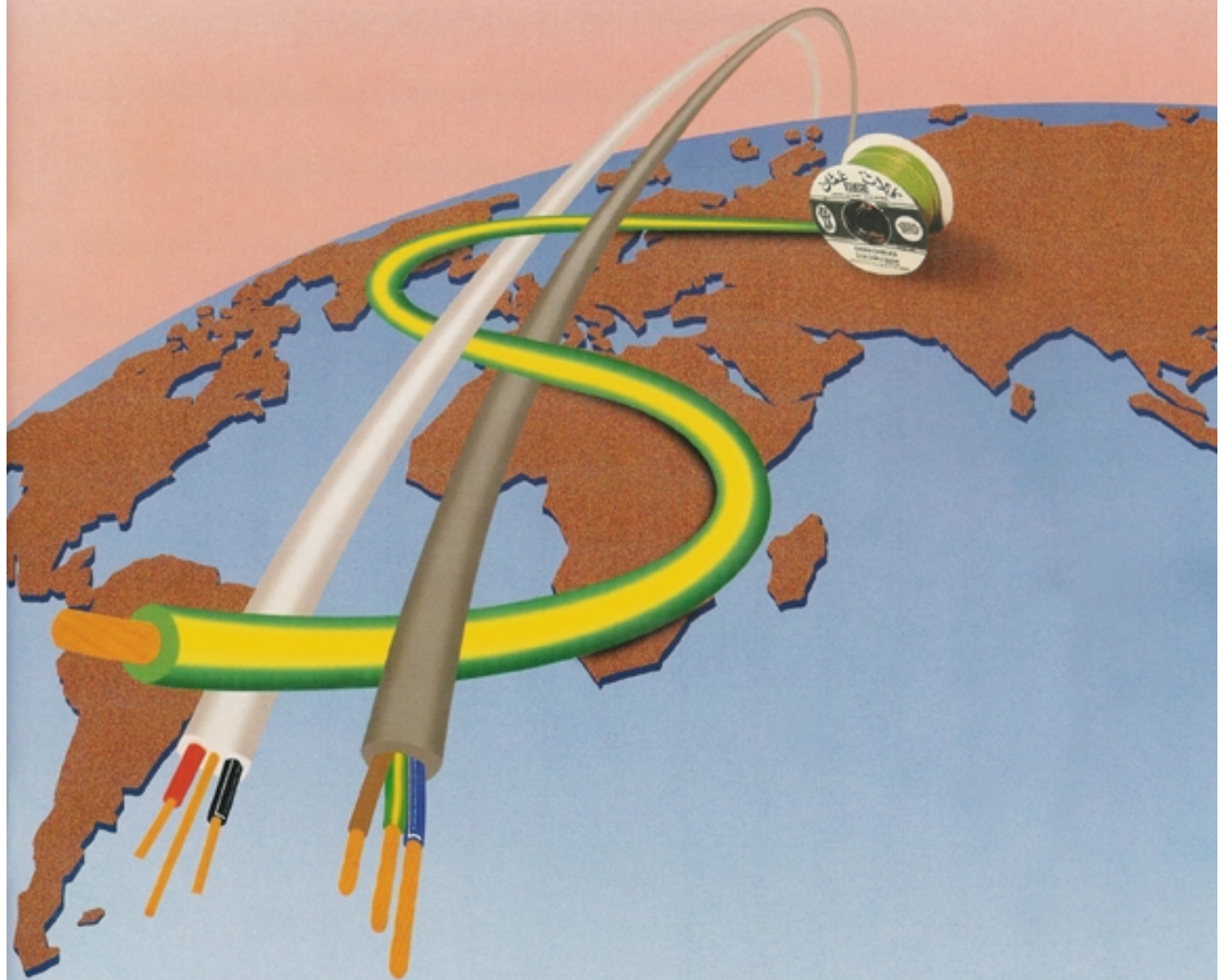




PVC Wire & Flexible Cables



OMAN CABLES INDUSTRY (S.A.O.G.)



An affiliated company of the Draka Holding Group



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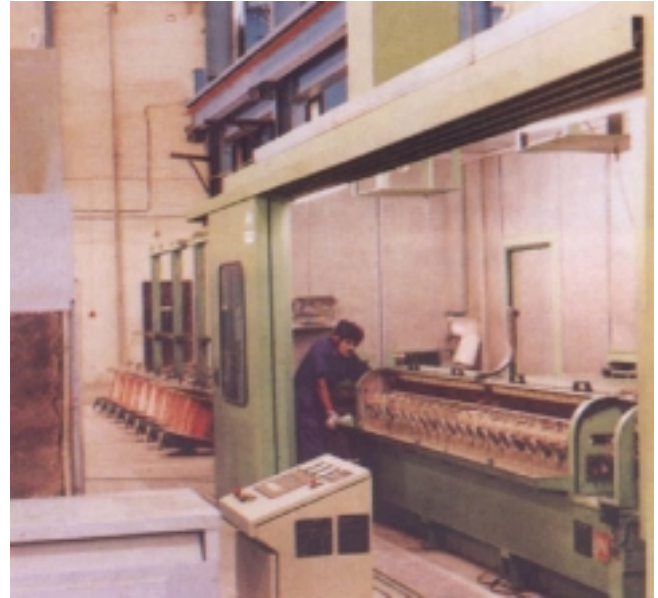
Notes on the use of PVC Insulated Cables and Flexible Cords

Polyvinyl Chloride Compounds

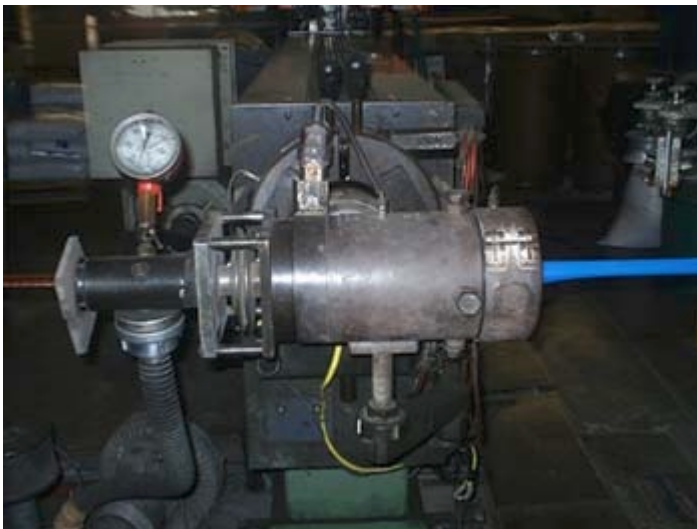
PVC compounds used for cords and cables are described in BS 7655.

Several grades of compounds are detailed in this standard for both insulation and sheathing requirements. PVC compounds are thermoplastic by nature and consequently are designed to operate within a prescribed temperature range.

Grades of PVC can therefore be selected to suit particular environment temperatures, with the maximum conductor temperature for heat resisting grade PVC being 85 °C*. Oman Cables also offer **LSF**, cables, suitable for use in fire hazards areas or where safety of human life against toxic gases is of prime importance.



Fine Wire Drawing



PVC Extrusion

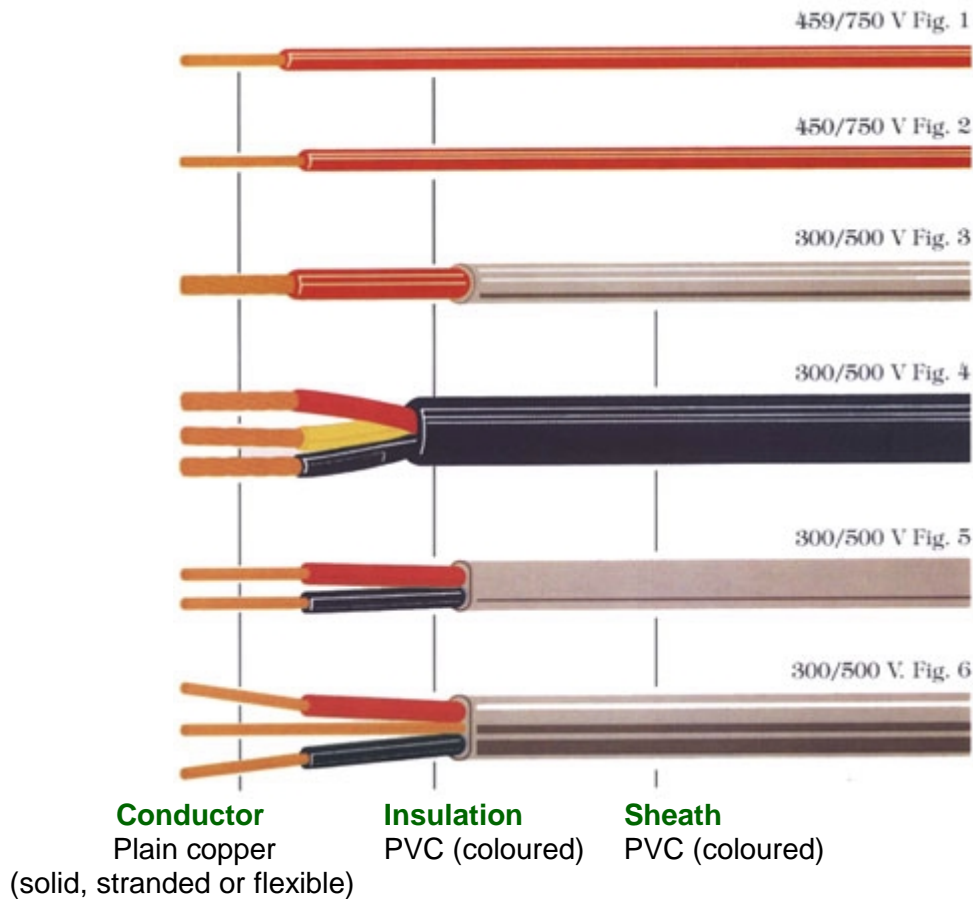
The majority of wiring installations, however, use a general-purpose grade of PVC, which has a maximum operating temperature of 70°C; this grade of PVC wires should not be installed or flexed when the air temperature is nearing or below 0 °C. A wide range of bright colours can be formulated with PVC compounds.

Sheath colours are normally grey, black or white. Other colours can be provided on special order but experience has shown that for outdoor use black has the highest resistance to direct sunlight, with other colours tending to fade in the time under these conditions.

* Special PVC compound is used.



Materials, Construction and identification




Identification

Cable type	From 1 st April 2006		Valid till 31 st March 2006	
	Insulation Colour	Sheath colour	Insulation colour	Sheath colour
PVC insulated non-sheathed (figs 1 and 2)	Red, black, white, blue, brown, grey, green/yellow, orange, pink, turquoise, violet	-	Red, black, white, blue, brown, grey, green/yellow, orange, pink, turquoise, violet	-
PVC insulated, PVC sheathed (light non-flexible cable with extruded inner covering) (Fig 4)	Two core: Brown & Blue * Three core: Brown, Black & Grey	Grey	Two core: red and black Three core: red, yellow and blue Four core: red, yellow, blue and black Five core: red, yellow, blue, black and green/yellow	Black or grey
PVC insulated, PVC sheathed (fig 3, 5 and 6)	Two core: Brown & Blue * Three core: Brown, Black & Grey	Grey	Single core: red or black Two core: red and black	Grey or white

* For 2 x 1.0 & 2 x 1.5 cables, Brown and Brown



TUV Certificate



CERTIFICATE


**The TÜV CERT Certification Body
for QM Systems of RWTÜV Systems GmbH**
hereby certifies in accordance with TÜV CERT
procedure that

OMAN CABLES INDUSTRY (SAOG)
P.O. Box 25, Rusayl,
Postal Code – 124, Muscat
Sultanate of Oman


has established and applies a quality system for

**Design and Manufacture of Low Voltage and Medium Voltage Electrical Power
Cables, Control Cables, Overhead Line Conductors, Instrumentation Cables, Pilot
Cables, Aerial Bunched Cables, Other Wires and Cables for Electrical Power and
Control Applications.**

An audit was performed, Report No. 2.5-992/2000
Proof has been furnished that the requirements according to
ISO 9001 : 2000 / EN ISO 9001 : 2000 / ANSI ASQC Q 9001 : 2000
are fulfilled. The certificate is valid until **29 June 2006**
Certificate Registration No. 04100 1994 0351



Essen, 25. 03.2004




The TÜV CERT Certification Body for QM Systems
of RWTÜV Systems GmbH



PVC Wire & Flexible Cables

PVC Insulated Wires and Cables

Conforming to BS 6004

450/750 Volts
300/500 Volts





PVC Wire & Flexible Cables

PVC wiring cable

300/500V, 450/750 V to BS 6004

Voltage ratings

The non-sheathed general purpose cables are rated at 450/750V (450V to earth, 750 V A.C. between conductors). All other types are rated at 300/500V (300V to earth, 500V between conductors).

Copper Conductor Construction

TABLE - 1

Nominal conductor area mm ²	Conductor Class	Number and nominal diameter of wires mm	Nominal diameter of conductor mm	Maximum DC resistance of conductor at 20°C per km Plain annealed copper conductor
1	1	1/1.13	1.13	18.1
1.5	2	7/0.53	1.59	12.1
1.5	1	1/1.38	1.38	12.1
2.5	1	1/1.78	1.78	7.41
2.5	2	7/0.67	2.01	7.41
4	2	7/0.84	2.52	4.61
6	2	7/1.04	3.12	3.08
10	2	7/1.34	4.02	1.83
16	2	7/1.70	4.8	1.15
25	2	7/2.14	5.9	0.727
35	2	7/2.52	7.0	0.524
50	2	19/1.78	8.1	0.387
70	2	19/2.14	9.7	0.268
95	2	19/2.52	11.5	0.193
120	2	37/2.03	12.9	0.153
150	2	37/2.25	14.3	0.124
185	2	37/2.52	16.0	0.0991
240	2	61/2.25	18.8	0.0754
300	2	61/2.52	20.6	0.0601
400	2	61/2.85	24.8	0.047
500	2	61/3.20	26.3	0.0366
630	2	61/3.66	30.0	0.0283

NOTE:

Plain annealed copper conductor class 1 solid or class 2 stranded circular compacted or non-compacted as per BS 6360



Single Core Cables

PVC insulated, non-sheathed general purpose cables 450/750 V single core (rigid conductors)

Harmonized standard designation

Solid conductor **H07V-U**

Stranded conductor **H07V-R**

TABLE - 2



Nominal conductor area mm ²	Class of conductor	Radial Thickness of insulation mm	Maximum Overall diameter mm	Approximate weight kg/km
1.5	1	0.7	3.2	21
1.5	2	0.7	3.3	21
2.5	1	0.8	3.9	32
2.5	2	0.8	4.0	32
4	2	0.8	4.6	47
6	2	0.8	5.2	66
10	2	1.0	6.7	110
16	2	1.0	7.8	170
25	2	1.2	9.7	260
35	2	1.2	10.9	350
50	2	1.4	12.8	480
70	2	1.4	14.6	680
95	2	1.6	17.1	930
120	2	1.6	18.8	1160
150	2	1.8	20.9	1430
185	2	2.0	23.3	1740
240	2	2.2	26.6	2270
300	2	2.4	29.6	2840
400	2	2.6	33.2	3640
500	2	2.8	36.9	4650
630	2	2.8	41.1	5940

CONSTRUCTION: PLAIN ANNEALED COPPER CONDUCTOR, CLASS 1 SOLID CONDUCTOR, OR CLASS 2 STRANDED CONDUCTOR, AS TABLE 1, INSULATION TYPE T1-1.

TABLE 2 - A



PVC Insulated non-sheathed cable for internal wiring 300/500 single core.

Harmonized standard designation, Class 1 conductor. H05V-U

Nominal Conductor area mm ²	Nominal diameter of wire mm	Radial Thickness of insulation mm	Maximum Overall diameter mm	Approximate weight kg/km
0.5	1/0.80	0.6	2.3	8.6
0.75	1/1.00	0.6	2.5	11.0
1.0	1/1.13	0.6	2.7	14.0



PVC Wire & Flexible Cables

Single Core Flexibles

PVC insulated, non-sheathed general purpose cables 450/750 V single core flexible conductors
Harmonized standard designation HO7V-K

TABLE - 3

Nominal conductor area mm ²	Class of Conductor	Radial Thickness of insulation mm	Maximum Overall Diameter mm	Approximate weight kg/km
1.5	5	0.7	3.4	21
2.5	5	0.8	4.1	32
4	5	0.8	4.8	47
6	5	0.8	5.3	66
10	5	1.0	6.8	110
16	5	1.0	8.1	170
25	5	1.2	10.2	260
35	5	1.2	11.7	350
50	5	1.4	13.9	480
70	5	1.4	16.0	680
95	5	1.6	18.2	930
120	5	1.6	20.2	1180
150	5	1.8	22.5	1430
185	5	2.0	24.9	1740
240	5	2.2	28.4	2270

Single Core - PVC/PVC

PVC insulated, PVC sheathed cables 300/500 V single core
 Conductor as per table 1

TABLE - 4

Number and nominal area of conductor mm ²	Class of conductor	Radial thickness of insulation mm	Radial thickness of Sheath mm	Overall diameter maximum mm	Approximate weight kg / km
1.0	1	0.6	0.8	4.5	28
1.5	1	0.7	0.8	4.9	36
2.5	1	0.8	0.8	5.8	51
4	2	0.8	0.9	6.8	75
6	2	0.8	0.9	7.4	98
10	2	1.0	0.9	8.8	150
16	2	1.0	1.0	10.5	220
25	2	1.2	1.1	12.5	300
35	2	1.2	1.1	13.5	400



Circular Multicore Cables

PVC insulated, PVC sheathed light non-flexible cable 300/500 V - 2, 3, 4 and 5 cores.
Conductor as per table 1.

TWO CORE



TABLE - 5

Number and nominal area of conductors mm ²	Class of conductor	Radial thickness of insulation mm	Thickness of Inner Covering mm	Radial thickness of sheath mm	Overall diameter maximum mm
2 x 1.5	2	0.7	0.4	1.2	10.5
2 x 2.5	2	0.8	0.4	1.2	12.0
2 x 4	2	0.8	0.4	1.2	13.0
2 x 6	2	0.8	0.4	1.2	14.0
2 x 10	2	1.0	0.6	1.4	17.5
2 x 16	2	1.0	0.6	1.4	20.0
2 x 25	2	1.2	0.8	1.4	24.0
2 x 35	2	1.2	1.0	1.6	27.5

PVC insulated, PVC sheathed non-flexible cable 300/500 V
Conductor as per table 1.

THREE CORE



TABLE - 6

Number and nominal area of conductors mm ²	Class of conductor	Radial nominal insulation mm	Thickness of Covering mm	Radial thickness of sheath mm	Overall diameter maximum mm
3 x 1.5	2	0.7	0.4	1.2	11.0
3 x 2.5	2	0.8	0.4	1.2	12.5
3 x 4	2	0.8	0.4	1.2	13.5
3 x 6	2	0.8	0.4	1.4	15.5
3 x 10	2	1.0	0.6	1.4	19.0
3 x 16	2	1.0	0.8	1.4	21.5
3 x 25	2	1.2	0.8	1.6	26.0
3 x 35	2	1.2	1.0	1.6	29.0



PVC Wire & Flexible Cables

PVC insulated, PVC sheathed non-flexible cable 300/500 V
Conductor as per table - 1.

FOUR CORE

TABLE - 7



Number and nominal area of conductors mm ²	Class of conductor	Radial nominal insulation mm	Thickness of Inner Covering mm	Radial thickness of sheath mm	Overall diameter maximum mm
4 x 1.5	2	0.7	0.4	1.2	12.0
4 x 2.5	2	0.8	0.4	1.2	13.5
4 x 4	2	0.8	0.4	1.2	15.0
4 x 6	2	0.8	0.6	1.4	17.0
4 x 10	2	1.0	0.6	1.4	20.5
4 x 16	2	1.0	0.8	1.4	23.5
4 x 25	2	1.2	1.0	1.6	28.5
4 x 35	2	1.2	1.0	1.6	32.0

PVC insulated, PVC sheathed non-flexible cable 300/500 V
Conductor as per table - 1.

FIVE CORE

TABLE - 8



Number and nominal area of conductors mm ²	Class of Conductor	Radial thickness of insulation mm	Thickness of Inner Covering mm	Radial thickness of sheath mm	Overall diameter Maximum mm
5 x 1.5	2	0.7	0.4	1.2	12.5
5 x 2.5	2	0.8	0.4	1.2	14.5
5 x 4	2	0.8	0.6	1.4	17.0
5 x 6	2	0.8	0.6	1.4	18.5
5 x 10	2	1.0	0.6	1.4	22.0
5 x 16	2	1.0	0.8	1.6	26.0
5 x 25	2	1.2	1.0	1.6	31.5
5 x 35	2	1.2	1.2	1.6	35.0



Twin Flat Without ECC (Earth Continuity Conductor)

PVC insulated, PVC sheathed cables with and without earth continuity conductor 300/500V.
Conductor as per Table-1.

TABLE - 9



Number and nominal area of conductors mm ²	Class of Conductor	Radial Thickness of insulation mm	Radial thickness of sheath mm	Overall dimensions		Approximate weight kg/km
				minimum mm	maximum mm	
2 x 1.0	1	0.6	0.9	4.0 x 6.2	4.7 x 7.4	53
2 x 1.5	1	0.7	0.9	4.4 x 7.0	5.4 x 8.4	71
2 x 2.5	1	0.8	1.0	5.2 x 8.4	6.2 x 9.8	100
2 x 4	2	0.8	1.0	5.6 x 9.6	7.2 x 11.5	150
2 x 6	2	0.8	1.1	6.4 x 10.5	8.0 x 13.0	200
2 x 10	2	1.0	1.2	7.8 x 13.0	9.6 x 16.0	290
2 x 16	2	1.0	1.3	9.0 x 15.5	11.0 x 18.5	460

TWIN FLAT WITH ECC

PVC insulated, PVC sheathed cables with and without earth continuity conductor 300/500V.
Conductor as per Table – 1.

TABLE - 10



Number and nominal area of conductors mm ²	Class of conductor	Radial thickness of insulation mm	Radial thickness of sheath mm	Overall dimensions		ECC area mm ²	Approximate weight kg/km
				minimum mm	maximum mm		
2 x 1.0	1	0.6	0.9	4.0 x 7.2	4.7 x 8.6	1.0	68
2 x 1.5	1	0.7	0.9	4.4 x 8.2	5.4 x 9.6	1.0	87
2 x 2.5	1	0.8	1.0	5.2 x 9.8	6.2 x 11.5	1.5	120
2 x 4	2	0.8	1.0	5.6 x 10.5	7.2 x 13.0	1.5	170
2 x 6	2	0.8	1.1	6.4 x 12.5	8.0 x 15.0	2.5	240
2 x 10	2	1.0	1.2	7.8 x 15.5	9.6 x 19.0	4 *	390
2 x 16	2	1.0	1.3	9.6 x 18.0	11.0 x 22.5	6 *	560

* Class 2 conductor only.



PVC Wire & Flexible Cables

Single core PVC insulated cables, non-armoured, with or without sheath(copper conductors)

TABLE 11

Current-carrying capacity (Amperes):

As per IEE wiring regulation-16th

Ambient temperature : 30 °C

Conductor operating temperature : 70 °C

Conductor cross sectional area mm ²	Enclosed in conduit on a wall or in trunking etc.		Clipped direct		In air	
					Vertical flat spaced	Trefoil
	2 cables single phase a.c or d.c	3 or 4 cables three phase a.c	2 cables single phase a.c or d.c flat and touching	3 or 4 cables three phase a.c flat and touching or trefoil	2 cables single phase a.c or d.c or 3 cables three-phase a.c	3 cables trefoil three-phase a.c
1	13.5	12	15.5	14	-	-
1.5	17.5	15.5	20	18	-	-
2.5	24	21	27	25	-	-
4	32	28	37	33	-	-
6	41	36	47	43	-	-
10	57	50	65	59	-	-
16	76	68	87	79	-	-
25	101	89	114	104	130	110
35	125	110	141	129	162	137
50	151	134	182	167	197	167
70	192	171	234	214	254	216
95	232	207	284	261	311	264
120	269	239	330	303	362	308
150	300	262	381	349	419	356
185	341	296	436	400	480	409
240	400	346	515	472	569	485
300	458	394	594	545	659	561
400	546	467	694	634	795	656
500	262	533	792	723	920	749
630	720	611	904	826	1070	855
800	-	-	1030	943	1188	971
1000	-	-	1154	1058	1337	1079



PVC Wire & Flexible Cables

Multicore PVC insulated cables, non-armoured

TABLE 12

Current-carrying capacity (Amperes):

As per IEE wiring regulation-16th

Ambient temperature : 30 °C

Conductor operating temperature : 70 °C

Conductor cross sectional area mm ²	Enclosed in conduit on a wall or ceiling or in trunking		Clipped direct		On a perforated cable tray or (free air)	
	1 two core cable* single phase a.c or d.c	1 three core cable*, or 1 four-core cable, three phase a.c	1 two core cable* single phase a.c or d.c	1 three core cable*, or 1 four-core cable, three phase a.c	1 two core cable* single phase a.c or d.c	1 three core cable*, or 1 four-core cable, three phase a.c
1	13	11.5	15	13.5	17	14.5
1.5	16.5	15	19.5	17.5	22	18.5
2.5	23	20	27	24	30	25
4	30	27	36	32	40	34
6	38	34	46	41	51	43
10	52	46	63	57	70	60
16	69	62	85	76	94	80
25	90	80	112	96	119	101
35	111	99	138	119	148	126

* with or without protective conductor.



PVC Wire & Flexible Cables

Rating factors As per IEE wiring regulation – 16th

Correction factors for ambient temperature where protection is against short-circuit.

Type of insulation	Operating temperature	Ambient temperature °C								
		25	30	35	40	45	50	55	60	65
General Purpose p.v.c	70°C	1.03	1.00	0.94	0.87	0.79	0.71	0.61	0.50	0.35

Correction factors for ambient temperature where the overload protective device is a semi-enclosed fuses to BS 3036.

Type of insulation	Operating temperature	Ambient temperature °C								
		25	30	35	40	45	50	55	60	65
General Purpose p.v.c	70°C	1.03	1.00	0.97	0.94	0.91	0.87	0.84	0.69	0.48

Correction factor As per IEE wiring regulation – 16th

Correction factors for groups of more than one circuit of single-core cables or more than one multicore cable.

		Correction factor (C _g)													
		Number of circuits or multicore cables													
		2	3	4	5	6	7	8	9	10	12	14	16	18	20
Enclosed or bunched and clipped direct to a non-metallic surface.		0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50	0.48	0.45	0.43	0.41	0.39	0.38
Single layer clipped to a non-metallic surface	Touching	0.85	0.79	0.75	0.73	0.72	0.72	0.71	0.70	--	--	--	--	--	--
	Spaced*	0.94	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Single layer multicore touching on a ladder support		0.86	0.82	0.80	0.79	0.78	0.78	0.78	0.77	--	--	--	--	--	--

* Spaced by clearance between adjacent surfaces of a least one cable diameter (De). Where the horizontal clearances between adjacent cables exceeds 2 De, no correction factor need be applied.



PVC Wire & Flexible Cables

Installation

At temperatures of about 0°C plastic cables begin to stiffen and should not be bent sharply or struck at these, or lower temperatures. Prior to installation, cables should be stored for at least 24 hours in a warm place. Low temperatures have no harmful effect; cables regain their normal flexibility at higher temperatures.

Cables should be installed in accordance with the appropriate installation authority regulations.

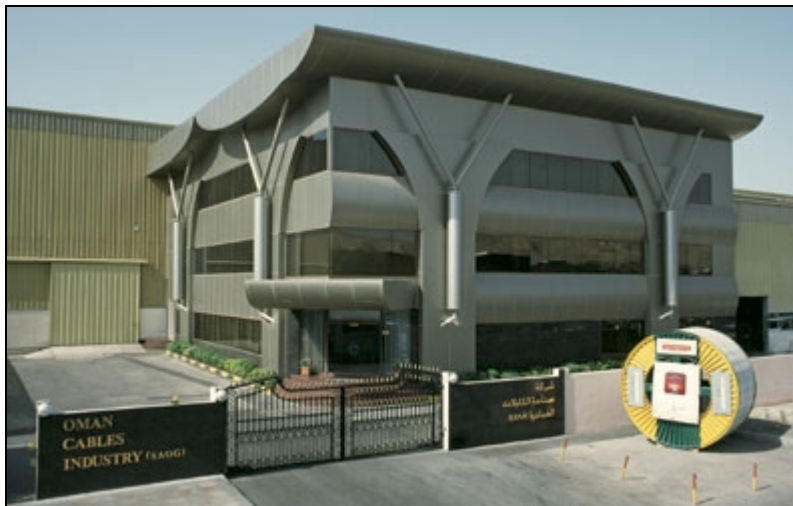
Bending radius (minimum internal radius of bend)

For cables up to 10 mm diameter or minor dimension, three times the diameter or minor dimension.

For cables 10 to 25 mm diameter or minor dimension, four times the diameter or minor dimension.



Office Block 1986-2002



Our Modern Office from 2003



PVC Wire & Flexible Cables

2 Core Flexible Cable



APPLICATION:

300/300 V grade cables and cords are used in Domestic Premises, Kitchens and offices for light duties like Light Portable Appliances. These are not suitable for cooking, heating, Outdoor industrial use, Agricultural Buildings or for supply to Portable Hand Tools.

300/500 V grade cables and cords can be used in offices, Domestic Premises, Kitchens, for household appliances including damp situations for medium duties. Eg. for Computers, Washing Machines, Spin Extractors, Refrigerators etc.

These are also suitable for Cooking and Heating Appliances and for all kinds of Hand Tools.

Harmonized code Designation:

Parallel cords : H03VVH2-F

Circular cords: H03VV-F

TABLE 13

Parallel & Circular 300/300 Volts Cable

Size In mm ²	Conductor		Max. DC Resistance At 20 °C ohms/km	Insulation Thickness mm	Sheath Thickness mm	Max. Overall Dia/Dim. Of Cable mm	Approx. Weight kg/km	Minimum IR At 70 °C M.ohms. km	Current Carrying Capacity A	Packing Length Yards
	No of Wires	Dia of Wire mm								
TWIN PARALLEL										
0.5	16	0.2	39	0.5	0.6	3.7 x 5.9	35	0.011	3	100
0.75	24	0.2	26	0.5	0.6	3.8 x 6.3	40	0.010	6	100
Circular										
0.5	16	0.2	39	0.5	0.6	5.9	45	0.011	3	100
0.75	24	0.2	26	0.6	0.6	6.3	55	0.010	6	100

Harmonized code Designation:

Parallel cords : H05VVH2-F

Circular cords: H05VV-F

Parallel & Circular 300/500 Volts Cable

TWIN PARALLEL										
0.75	24	0.20	26.00	0.60	0.80	4.5 x 7.2	50.0	0.0110	6.00	100
1.00	32	0.20	19.50	0.60	0.80	4.7 x 7.5	65.0	0.0100	10.00	100
CIRCULAR										
0.50	16	0.20	39.00	0.60	0.80	6.8	55.0	0.0130	3.00	100
0.75	24	0.20	26.00	0.60	0.80	7.2	70.0	0.0110	6.00	100
1.00	32	0.20	19.50	0.60	0.80	7.5	75.0	0.0100	10.00	100
1.50	30	0.25	13.30	0.70	0.80	8.6	100.0	0.0100	16.00	100
2.50	50	0.25	7.98	0.80	1.00	10.6	150.0	0.0095	25.00	100

Type of Insulation – Type T12

Type of Sheath – Type TM2



PVC Wire & Flexible Cables

3 Core Flexible Cable



APPLICATION:

FLEXOMAN 300/300 V grade cables and cords are used in Domestic Premises, Kitchens and offices for light duties like Light Portable Appliances. These are not suitable for cooking, heating, Outdoor industrial use, Agricultural Buildings or for supply to Portable Hand Tools.

FLEXOMAN 300/500 V grade cables and cords can be used in offices, Domestic Premises, Kitchens, for household appliances including damp situations for medium duties. Eg. for Computers, Washing Machines, Spin Extractors, Refrigerators etc.

These are also suitable for Cooking and Heating Appliances and for all kinds of Outdoor Industrial use and supply to Portable Hand Tools

Harmonized code Designation:

Parallel cords : H03VVH2-F

Circular cords: H03VV-F

TABLE 14

CIRCULAR 300/300 VOLTS CABLES

SIZE mm ²	CONDUCTOR		MAX. DC RESISTANCE AT 20°C ohms/km	INSULATION THICKNESS mm	SHEATH THICKNESS mm	MAX. OVERALL DIA OF CABLE mm	APPROX WEIGHT Kg/Km	MINIMUM IR AT 70° C M.ohms.km	CURRENT CARRYING CAPACITY A	PACKING LENGTH YARDS
	NO. OF WIRES	DIA OF WIRE mm								
0.50	16	0.20	39.00	0.50	0.60	6.3	50.0	0.011	3.00	100
0.75	24	0.20	26.00	0.50	0.60	6.7	60.0	0.010	6.00	100

Harmonized code Designation:

Parallel cords : H05VVH2-F

Circular cords: H05VV-F

CIRCULAR 300/500 VOLTS CABLES

Circular										
0.75	24	0.20	26.00	0.60	0.80	7.6	75.0	0.0110	6.00	100
1.00	32	0.20	19.50	0.60	0.80	8.0	90.0	0.0100	10.00	100
1.50	30	0.25	13.30	0.70	0.90	9.4	120.0	0.0100	16.00	100
2.50	50	0.25	7.98	0.80	1.00	11.4	185.0	0.0095	20.00	100



PVC Wire & Flexible Cables

4 Core Flexible Cable



APPLICATION:

FLEXOMAN 300/300 V grade cables and cords are used in Domestic Premises, Kitchens and offices for light duties like Light Portable Appliances. These are not suitable for cooking, heating, Outdoor industrial use, Agricultural Buildings or for supply to Portable Hand Tools.

FLEXOMAN 300/500 V grade cables and cords can be used in offices, Domestic Premises, Kitchens, for household appliances including damp situations for medium duties. Eg. for Computers, Washing Machines, Spin Extractors, Refrigerators etc.

These are also suitable for Cooking and Heating Appliances and for all kinds of Outdoor Industrial use and supply to Portable Hand Tools

Harmonized code designations:

Circular cords: H03VV-F

TABLE 15

CIRCULAR 300/300 VOLTS CABLES

SIZE mm ²	CONDUCTOR		MAX. DC RESISTANCE AT 20°C ohms/km	INSULATION THICKNESS mm	SHEATH THICKNESS mm	MAX. OVERALL DIA/DIM. OF CABLE mm	APPROX WEIGHT Kg/Km	MINIMUM IR AT 70°C M.ohms.km	CURRENT CARRYING CAPACITY A	PACKING LENGTH YARDS
	NO. OF WIRES	DIA. OF WIRE mm								
CIRCULAR 0.50	16	0.20	39.00	0.50	0.60	6.9	70.0	0.011	3.00	100
0.75	24	0.20	26.00	0.50	0.60	7.3	80.0	0.010	6.00	100

Harmonized code designations:

Circular cords: H05VV-F

CIRCULAR 300/500 VOLTS CABLES

Circular										
0.75	24	0.20	26.00	0.60	0.80	8.3	90.0	0.0110	6.00	100
1.00	32	0.20	19.50	0.60	0.90	9.0	110.0	0.0100	10.00	100
1.50	30	0.25	13.30	0.70	1.00	10.5	160.0	0.0100	16.00	100
2.50	50	0.25	7.98	0.80	1.10	12.5	230.0	0.0095	20.00	100

NOTE: Cables generally conform to B.S. 6500
 Current ratings are for ambient temperature at 30°C
 All cables can be supplied with heat resistant grade PVC
 Sizes above 2.5 mm² can also be manufactured & supplied.



PVC Wire & Flexible Cables

Oman Cables Quality Assurance

In order to ensure the best quality assurance system, it is extremely desirable to test and inspect the product at each stage of manufacturing including raw materials and finished product.

OMAN CABLES have the following Quality Assurance System: -

- A. Raw-materials inspection
- B. In-Process inspection
- C. Finished product inspection

Raw-Materials inspection:

All the raw materials are procured only from internationally approved companies known for their quality products and once the material is received with their product certification, Oman Cables quality team tests and inspects the same again. Only those materials which meet Oman Cables internal standards are released for production.

In-Process Inspection:

A team of well-experienced and qualified personnel inspects and test all the In-Process materials at every stage and which complies 100% only released for next process.

Finished Product Inspection:

Oman Cables products before leaving warehouse undergo both routine and type tests according to the standards to which it was manufactured.

Routine tests are carried out for conformity to specifications. These are intended to prove the general qualities and design. Various type tests are conducted lot-wise at regular frequency on sampling basis to determine the dimensional, physical, environmental and electrical acceptance.



Note: Improvement being a continuous process at OCI, contents of this catalogue may be changed without any notice.