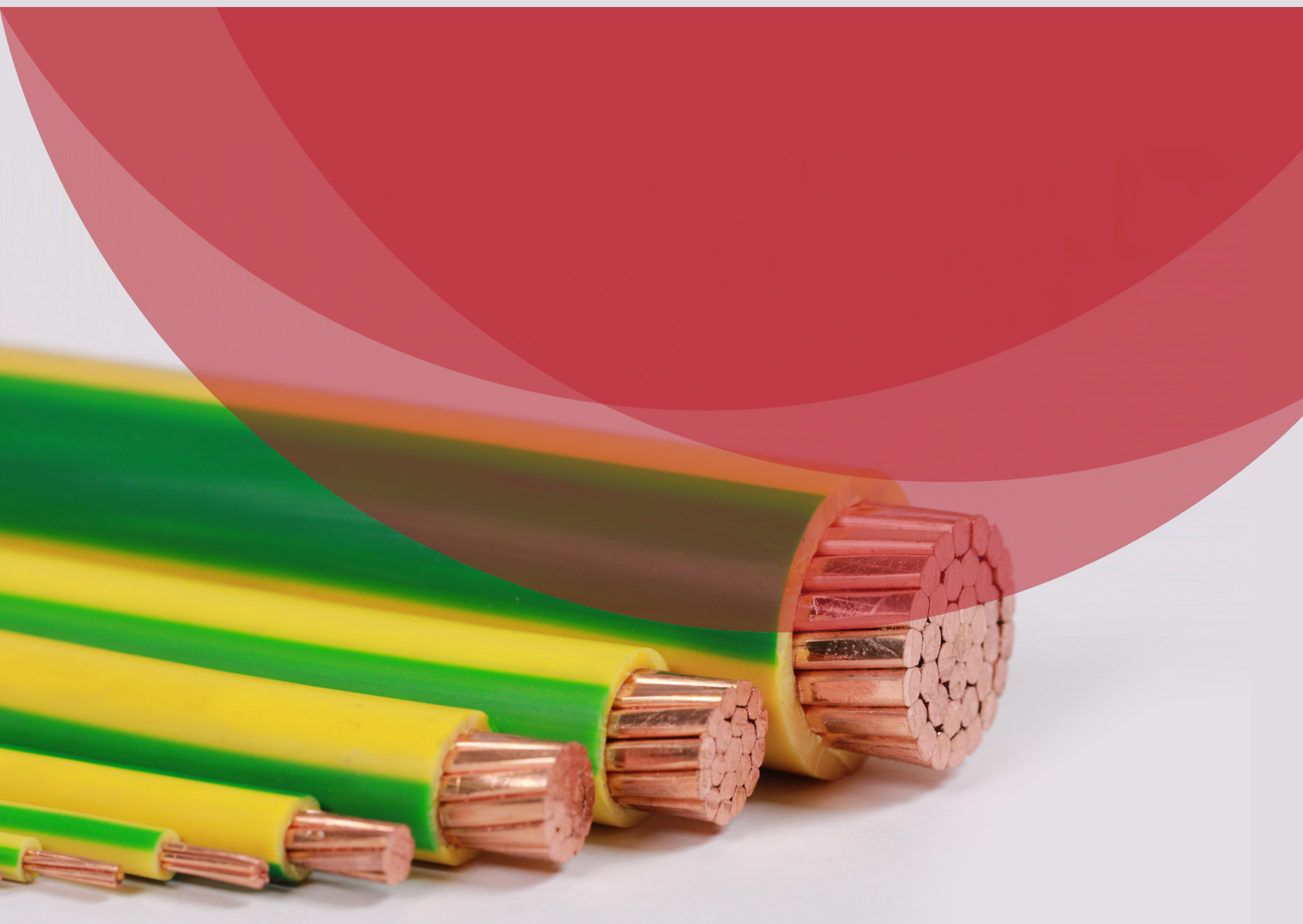
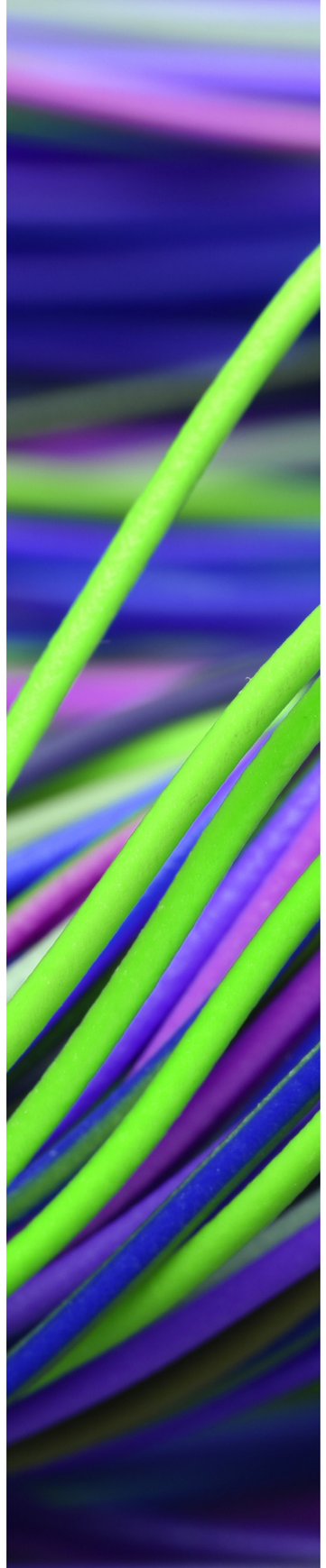
CHINA-WIRES.COM

POWER CABLE
CATALOGUE





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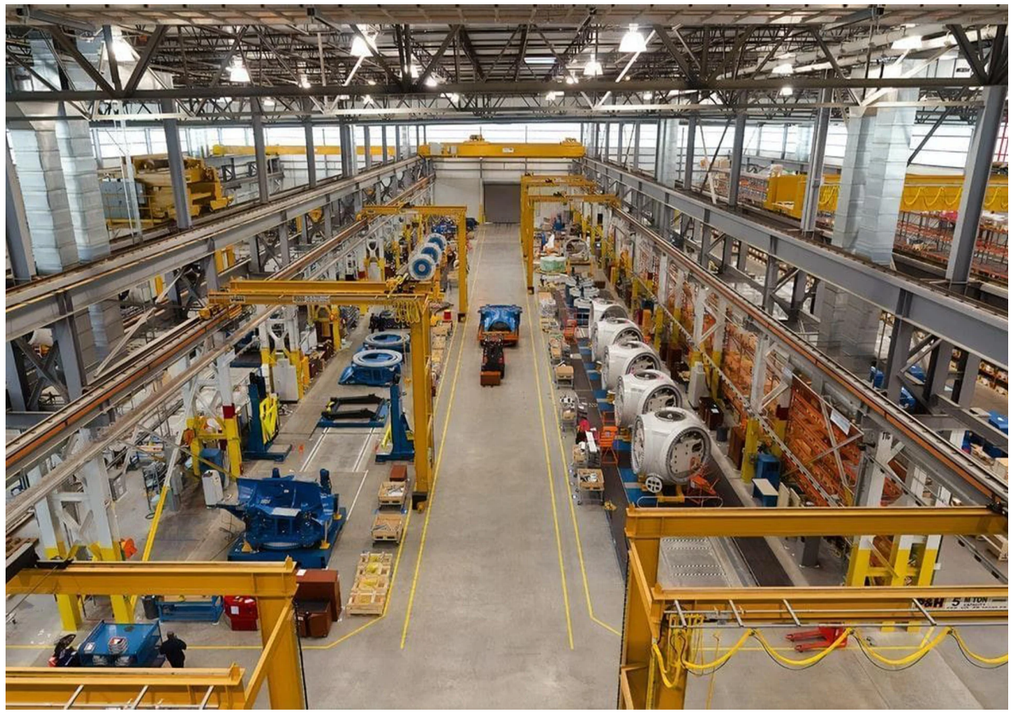
MKXXS001.05-23

DEDICATED TO DELIVERING EXCELLENCE IN THE CABLE MANUFACTURING INDUSTRY

China Loong Power Cable Co., Ltd., a key enterprise within the China Loong Group Co.,Ltd, specializes in the manufacture of superior quality power cable products, each of which has successfully attained CE certification. This certification underscores our unwavering commitment to adhering to stringent European safety and quality standards, ensuring our products meet the highest international requirements. Our strategic focus encompasses swift market penetration, upholding the highest standards of product quality, and delivering outstanding after-sales service to each of our customers.

MARKET SEGMENTS



Our power cable range is renowned for its superior features, including exceptional durability, high conductivity, excellent flexibility, resistance to environmental stress, and eco-friendliness. These characteristics distinguish our offerings in the market, addressing diverse application requirements across various industries.

Technical Information

TECHNICAL INFORMATION OF
PVC INSULATED WIRES

Polyvinyl Chloride (PVC) Compounds

PVC compounds used in wires and cables as per BS 6004/BS EN 50525-2-31, are described in BS EN 50363-3 / BS 7655-4.2.

Several grades of compounds are detailed in these standards 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 90°C and the lowest operating temperature grade PVC below minus 30°C. Oman Cables also offer LSZH suitable for use in fire hazards areas or where safety of human life against toxic gases is of prime importance.

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

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 colour has the highest resistance to Direct sunlight, with other colour tending to fade in the time under these conditions.

TECHNICAL INFORMATION OF
LSZH INSULATED WIRES

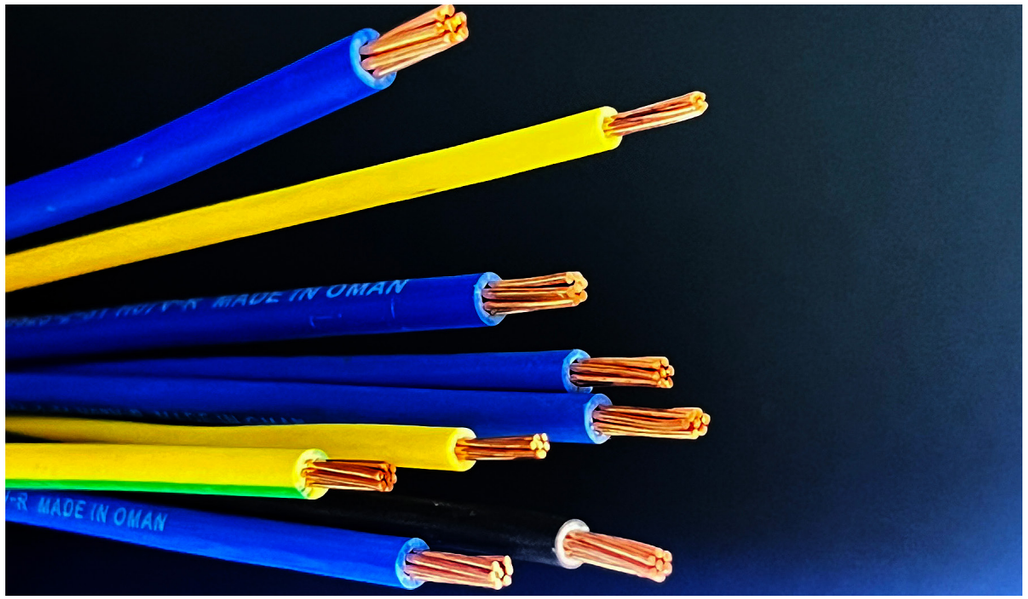
LSZH Compound used in wires as per BS 7211/BS EN 50525-3-41 is Thermosetting Insulation suitable for operating temperature of 90°C, Type EI5 to BS EN 50363-5.

PVC, when burnt, emits large quantities of dense black smoke and acid gas, and in addition to the debilitating effect of smoke and toxic fume inhalation, obscuration of fire safety exits delays or prevents escape. Improved PVC formulations producing less smoke and acid gas have been developed but still do not satisfy required emission levels. The demand therefore has been for materials to replace PVC which do not give off smoke and toxic fumes and do not contain halogens.
The materials need to have the following characteristics:-

1. Fire retardant and zero halogen
2. Low emission of smoke, toxic fumes and acid gases during combustion
3. Similar mechanical and electrical properties to PVC
4. Acceptable process-ability
5. Low additional cost

Detailed properties of the above material are

- Halogen Content – Max 0.5%
- pH value –Minimum 4.3
- Conductivity – Maximum 10 micro Siemens/mm



COMPARISON OF CHEMICAL RESISTANCE PROPERTIES OF LSZH AND PVC

PROPERTIES	PVC	LSZH
Oxidation Resistance	E	E
Heat Resistance	G-E	G
Oil Resistance	F	P
Low-Temperature Flexibility	P-G	F-G
Weather, Sun Resistance	G-E	P
Ozone Resistance	E	E
Abrasion Resistance	F-G	F
Electrical Properties	F-G	F
Flame Resistance	G	E
Nuclear Radiation Resistance	F	G
Water Resistance	F-G	F
Acid Resistance	G-E	G
Alkali Resistance	G-E	G
Aliphatic Hydrocarbons Resistance	P	P
Aromatic Hydrocarbons Resistance	P-F	P
Halogenated Hydrocarbons Resistance	P-F	P
Alcohol Resistance	P-F	G
Underground Burial	P-G	F-G

Legend: E = Excellent, G = Good, P = Poor, F = Fair

CONDUCTOR CLASS

Class 1
Solid Rigid Conductor
Single Wire

Class 2
Stranded Conductor
Stranded Multi Wire

Class 5
Flexible Conductor
Stranded Thin Multi Wire

NOMINAL CROSS-SECTIONAL AREA (mm²)	APPROX. NUMBER OF WIRES (CLASS 5)
	Cu
0.5	16
0.75	24
1	32
1.5	30
2.5	50
4	56
6	84
10	80

NOMINAL CROSS-SECTIONAL AREA (mm²)	APPROX. NUMBER OF WIRES (CLASS 2)	
	Cu	Al
1.5, 2.5, 4, 6 & 10	7	-
16, 25, 35 & 50	6	6
70	12	12
95	15	15
120 & 150	18	15
185	30	30
240 & 300	34	30
400, 500, 630, 800 & 1000	53	53

Products Range

BARE COPPER EARTHING CONDUCTOR

APPLICATION

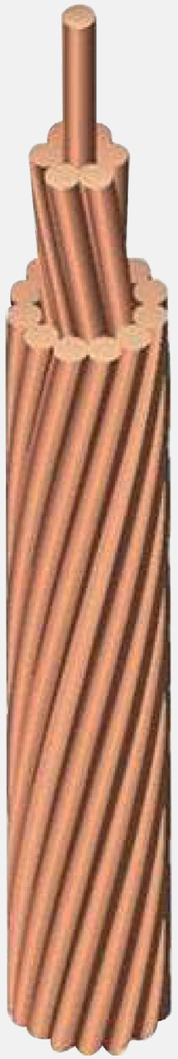
Soft Drawn Bare Copper Conductors are primarily used for grounding purposes where high conductivity and flexibility is required. Soft Drawn Bare Copper Conductors are used as grounding connections in circuits, grounding for machinery or equipment and for numerous other applications.

CONSTRUCTION

Stranded Annealed Plain Copper Conductor. These conductors can be Non-compacted or Compacted depending upon the applicable standard & the project requirement. Metal coated tinned copper conductor can also be supplied based on project/customer's requirement.

APPLICATION STANDARDS

IEC 60228
BS EN 60228



CHARACTERISTICS

CONDUCTOR SIZE	FLEXIBILITY CLASS	MINIMUM NUMBER OF WIRES AS PER IEC 60228/ BS EN 60228	MAXIMUM DC RESISTANCE FOR PLAIN COPPER CONDUCTOR AT 20°C	MAXIMUM DC RESISTANCE FOR TINNED COPPER CONDUCTOR AT 20°C
(mm^2)		NOS	(Ω/KM)	(Ω/KM)
1.5	2	7	12.1	12.2
2.5	2	7	7.41	7.56
4	2	7	4.61	4.7
6	2	7	3.08	3.11
10	2	7	1.83	1.84
16	2	6	1.15	1.16
25	2	6	0.727	0.734
35	2	6	0.524	0.529
50	2	6	0.387	0.391
70	2	12	0.268	0.27
95	2	15	0.193	0.195
120	2	18	0.153	0.154
150	2	18	0.124	0.126
185	2	30	0.0991	0.1
240	2	34	0.0754	0.0762
300	2	34	0.0601	0.0607
400	2	53	0.0470	0.0475
500	2	53	0.0366	0.0369
630	2	53	0.0283	0.0286
800	2	53	0.0221	0.0224
1000	2	53	0.0176	0.0177

PACKING:

These SDBC Conductor shall be supplied in Drums for 1,000 meters or more.

COPPER CONDUCTOR PROPERTIES:

Electrical Resistivity (ρ) : 1.7241×10^{-8} (Ω.m)
Purity % : 99.9

SOLID CONDUCTOR PVC INSULATED BUILDING WIRES (H05V-U) 300/500V

APPLICATION

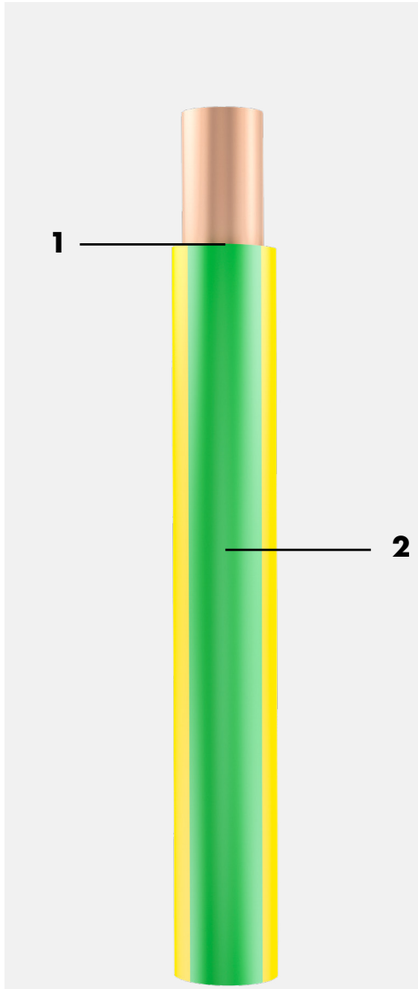
Suitable for power, lighting circuits and building wiring. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Single strand solid annealed plain copper conductor, extruded PVC insulation of PVC Type TI 1 or PVC Type C (for 70°C application), 500/300 V Wires to BS EN 50525-2-31 or IEC 60227-3.

1. Conductor
Annealed plain copper (single strand solid, class-1)

2. Insulation
Extruded PVC Type TI 1 or PVC Type C



APPLICATION STANDARDS

BS EN 50525-2-31
IEC 60227-3

BASEC is applicable to
BS EN 50525-2-31 wires only

CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	A
0.5	0.6	70	2.3	9
0.75	0.6	70	2.5	10
1	0.6	70	2.7	12

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/
Ducts

Fixed or Clipped
Direct on Wall

On Perforated
Tray

Minimum
Bending Radius

SOLID CONDUCTOR HR-PVC INSULATED BUILDING WIRES (H05V2-U) 300/500V

APPLICATION

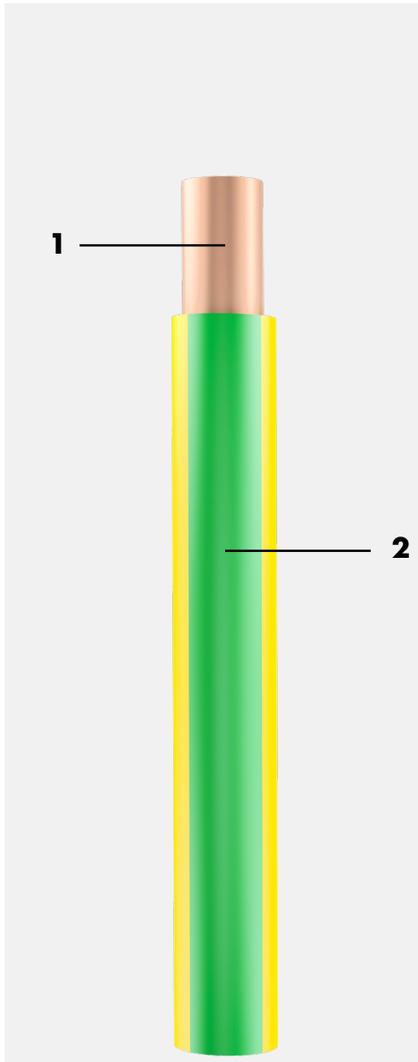
Suitable for power, lighting circuits and building wiring. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Single strand solid annealed plain copper conductor, extruded PVC insulation of HRPVC Type TI 3 or PVC Type E (for 90°C application), 300/500 V Wires to BS EN 50525-2-31 or IEC 60227-3.

1. Conductor
Annealed plain copper (single strand solid, class-1)

2. Insulation
Extruded HR-PVC Type TI 3 or PVC Type E



APPLICATION STANDARDS

BS EN 50525-2-31
EC 60227-3

BASEC is applicable to
BS EN 50525-2-31 wires only

CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm²	mm	°C	mm	A
0.5	0.6	90	2.3	10
0.75	0.6	90	2.5	11.5
1	0.6	90	2.7	14

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/
Ducts

Fixed or Clipped
Direct on Wall

On Perforated
Tray

Minimum
Bending Radius

SOLID CONDUCTOR LSZH INSULATED BUILDING WIRES (H05Z-U) 300/500V

APPLICATION

Suitable for power, lighting circuits and building wiring. Incorporates low smoke zero halogen insulation for use in areas where dense smoke and toxic fumes may cause a threat to life and equipment. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Single strand solid annealed plain copper conductor, extruded LSZH Type EI 5 Insulation (for 90°C application), 300/500 V Wires to BS EN 50525-3-41.

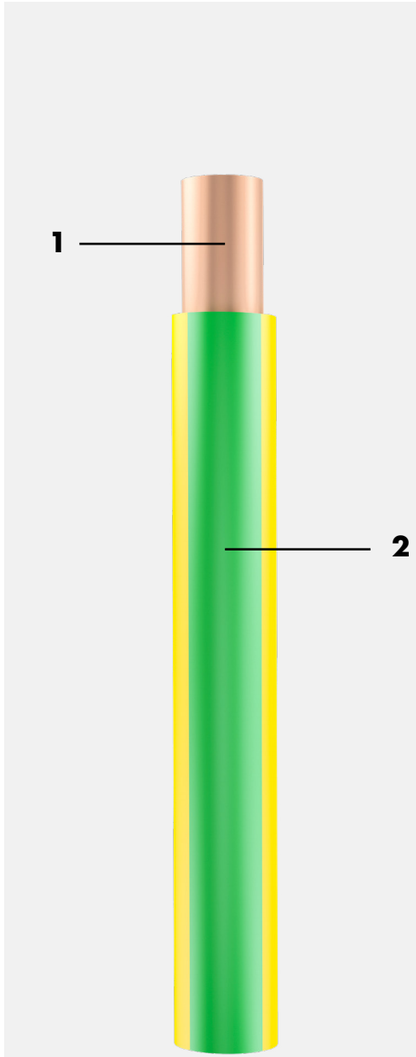
1. Conductor
Annealed plain copper (single strand solid, class-1)

2. Insulation
Extruded LSZH Type EI 5

APPLICATION STANDARDS

BS EN 50525-3-41

BASEC is applicable to BS EN 50525-3-41 wires only



CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	A
0.5	0.6	90	2.4	11
0.75	0.6	90	2.6	13
1	0.6	90	2.8	15

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/ Ducts

Fixed or Clipped Direct on Wall

On Perforated Tray

Minimum Bending Radius

FLEXIBLE CONDUCTOR PVC INSULATED BUILDING WIRES (H05V-K) 300/500V

APPLICATION

For use in applications where greater flexibility is required to assist installation. Suitable for power, lighting circuits and building wiring. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Multi stranded flexible annealed plain copper conductor, extruded PVC insulation of PVC Type TI 1 or PVC Type C (for 70°C application), 300/500 V Wires to BS EN 50525-2-31 or IEC 60227-3.

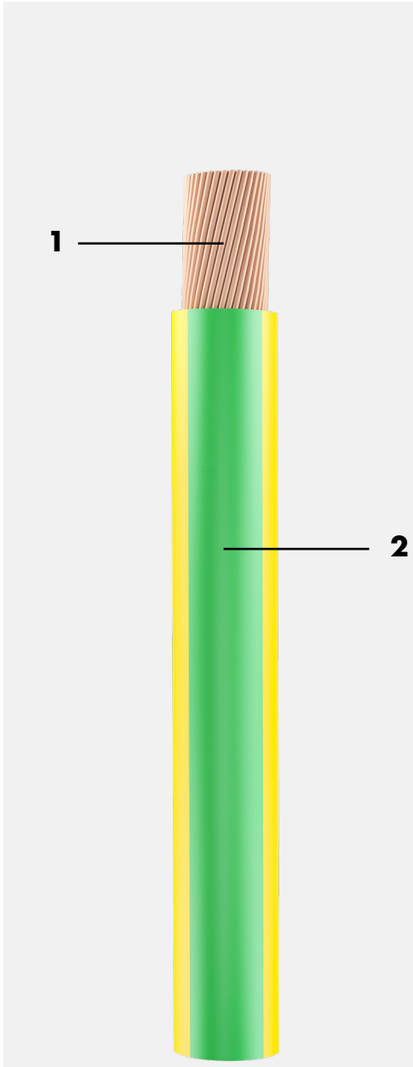
1. Conductor
Annealed plain copper (multi stranded flexible, class-5)

2. Insulation
Extruded PVC Type TI 1 or PVC Type C

APPLICATION STANDARDS

BS EN 50525-2-31
IEC 60227-3

BASEC is applicable to
BS EN 50525-2-31 wires only



CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS:

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	A
0.5	0.6	70	2.5	9
0.75	0.6	70	2.7	10
1	0.6	70	2.8	12

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/ Ducts | Fixed or Clipped Direct on Wall | On Perforated Tray | Minimum Bending Radius

FLEXIBLE CONDUCTOR HR-PVC INSULATED BUILDING WIRES (H05V2-K) 300/500V

APPLICATION

For use in applications where greater flexibility is required to assist installation. Suitable for power, lighting circuits and building wiring. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Multi stranded flexible annealed plain copper conductor, extruded PVC insulation of HR-PVC Type TI 3 or PVC Type E (for 90°C application), 300/500 V Wires to BS EN 50525-2-31 or IEC 60227-3.

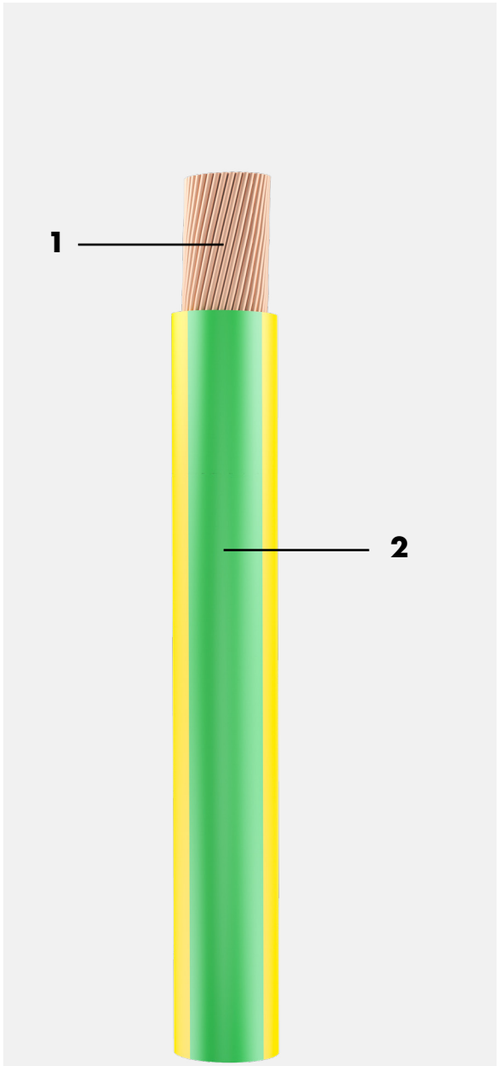
1. Conductor
Annealed plain copper (multi stranded flexible, class-5)

2. Insulation
Extruded HR-PVC Type TI 3 or PVC Type E

APPLICATION STANDARDS

BS EN 50525-2-31
IEC 60227-3

BASEC is applicable to BS EN 50525-2-31 wires only



CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS:

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	A
0.5	0.6	90	2.5	10
0.75	0.6	90	2.7	11.5
1	0.6	90	2.8	14

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

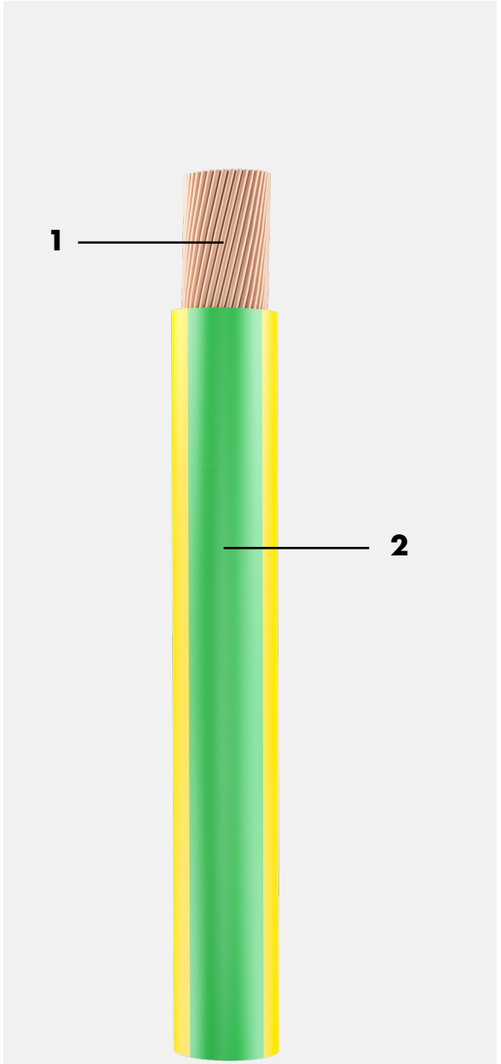
CABLE INSTALLATION

Conduit/ Ducts | Fixed or Clipped Direct on Wall | On Perforated Tray | Minimum Bending Radius

FLEXIBLE CONDUCTOR LSZH INSULATED BUILDING WIRES (H05Z-K) 300/500V

APPLICATION

For use in applications where greater flexibility is required to assist installation. Incorporates low smoke zero halogen insulation for use in areas where dense smoke and toxic fumes may cause a threat to life and equipment. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.



CONSTRUCTION

Multi stranded flexible annealed plain copper conductor, extruded LSZH Type EI 5 Insulation (for 90°C application), 300/500 V Wires to BS EN 50525-3-41.

1. Conductor
Annealed plain copper (multi stranded flexible, class-5)

2. Insulation
Extruded LSZH Type EI 5

APPLICATION STANDARDS

BS EN 50525-3-41

BASEC is applicable to BS EN 50525-3-41 wires only

CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS:

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	A
0.5	0.6	90	2.6	11
0.75	0.6	90	2.8	13
1	0.6	90	2.9	15

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/ Ducts

Fixed or Clipped Direct on Wall

On Perforated Tray

Minimum Bending Radius

SOLID CONDUCTOR PVC INSULATED BUILDING WIRES (H07V-U) 450/750V

APPLICATION

Suitable for power, lighting circuits and building wiring. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Single strand solid annealed plain copper conductor, extruded PVC insulation of PVC Type TI 1 or PVC Type C (for 70°C application), 450/750 V Wires to BS EN 50525-2-31 or IEC 60227-3.

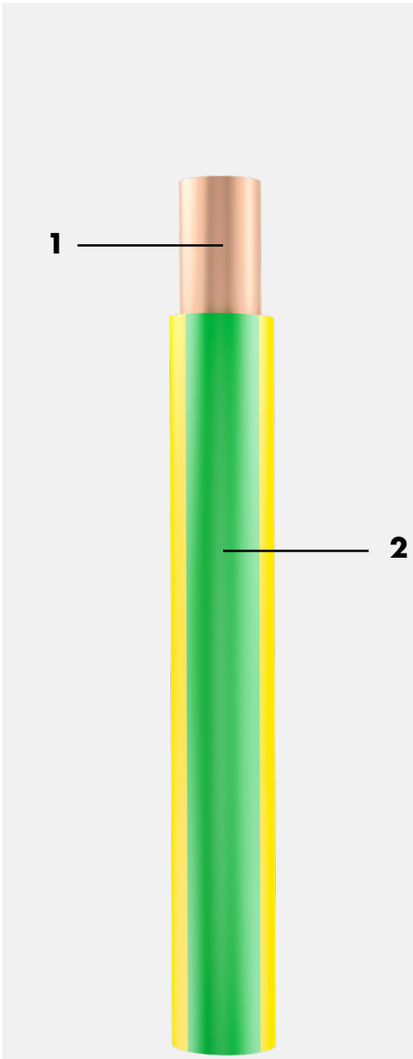
1. Conductor
Annealed plain copper (single strand solid, class-1)

2. Insulation
Extruded PVC Type TI 1 or PVC Type C

APPLICATION STANDARDS

BS EN 50525-2-31
IEC 60227-3

BASEC is applicable to BS EN 50525-2-31 wires only



CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS:

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	A
1.5	0.7	70	3.2	15.5
2.5	0.8	70	3.9	21
4	0.8	70	4.4	28
6	0.8	70	5.0	36
10	1.0	70	6.4	50

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/ Ducts

Fixed or Clipped Direct on Wall

On Perforated Tray

Minimum Bending Radius

SOLID CONDUCTOR HR-PVC INSULATED BUILDING WIRES (H07V2-U) 450/750V

APPLICATION

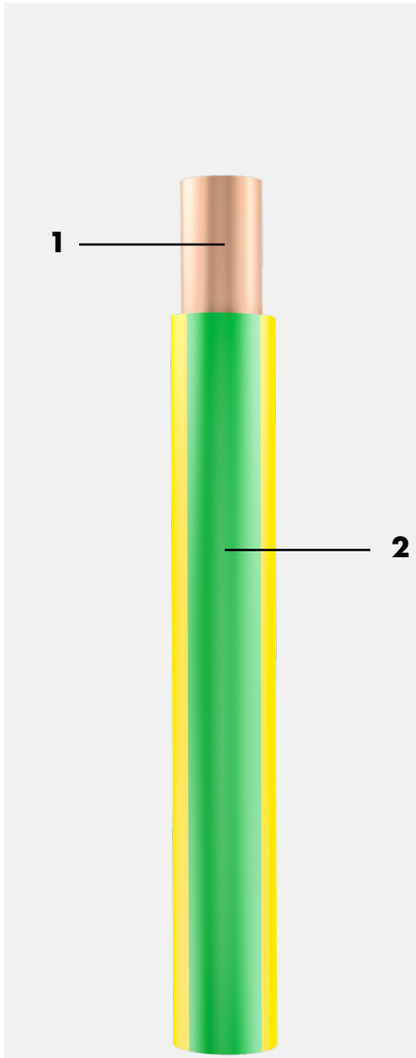
Suitable for power, lighting circuits and building wiring. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Single strand solid annealed plain copper conductor, extruded PVC insulation of HRPVC Type TI 3 or PVC Type E (for 90°C application), 450/750 V Wires to BS EN 50525-2-31 or IEC 60227-3.

1. Conductor
Annealed plain copper (single strand solid, class-1)

2. Insulation
Extruded HR-PVC Type TI 3 or PVC Type E



APPLICATION STANDARDS

BS EN 50525-2-31
IEC 60227-3

BASEC is applicable to BS EN 50525-2-31 wires only

CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	A
1.5	0.7	90	3.2	18
2.5	0.8	90	3.9	24
4	0.8	90	4.4	32
6	0.8	90	5.0	41
10	1.0	90	6.4	58

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION


Conduit/ Ducts


Fixed or Clipped Direct on Wall


On Perforated Tray

Minimum Bending Radius

SOLID CONDUCTOR LSZH INSULATED BUILDING WIRES (H07Z-U) 450/750V

APPLICATION

Suitable for power, lighting circuits and building wiring. Incorporates low smoke zero halogen insulation for use in areas where dense smoke and toxic fumes may cause a threat to life and equipment. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Single strand solid annealed plain copper conductor, LSZH Insulation Type EI 5 (for 90°C application), 450/750 V Wires to BS EN 50525-3-41.

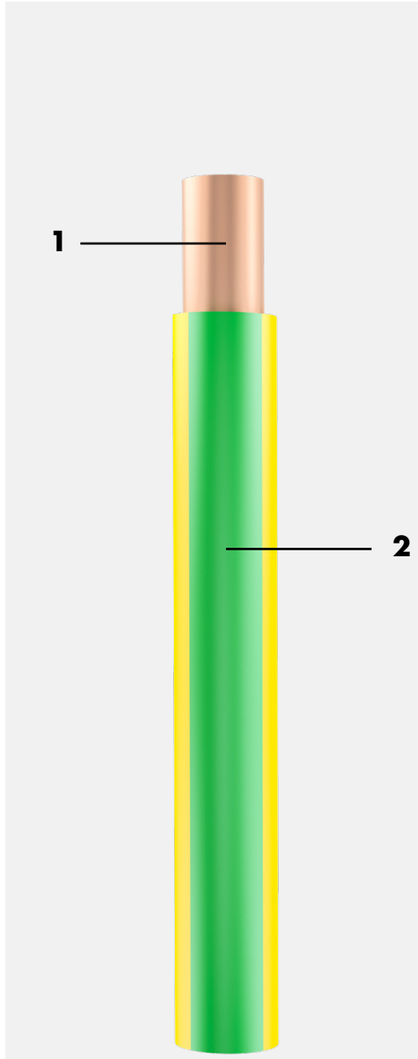
1. Conductor
Annealed plain copper (single strand solid, class-1)

2. Insulation
Extruded LSZH Type EI 5

APPLICATION STANDARDS

BS EN 50525-3-41

BASEC is applicable to BS EN 50525-3-41 wires only



CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm²	mm	°C	mm	A
1.5	0.7	90	3.3	20
2.5	0.8	90	4.0	28
4	0.8	90	4.6	37
6	0.8	90	5.2	48
10	1.0	90	6.6	66

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/ Ducts

Fixed or Clipped Direct on Wall

On Perforated Tray

Minimum Bending Radius

STRANDED CONDUCTOR PVC INSULATED BUILDING WIRES (H07V-R) 450/750V

APPLICATION

Suitable for power, lighting circuits and building wiring. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Stranded annealed plain copper conductor, extruded PVC insulation of PVC Type TI 1 or PVC Type C (for 70°C application), 450/750 V Wires to BS EN 50525-2-31 or IEC 60227-3.

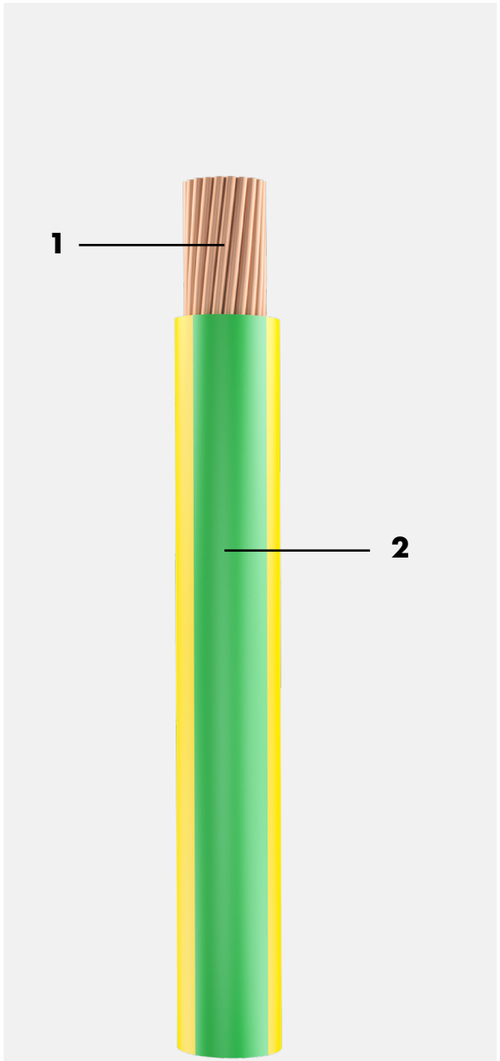
1. Conductor
Annealed plain copper (multi stranded, class-2)

2. Insulation
Extruded PVC Type TI 1 or PVC Type C

APPLICATION STANDARDS

BS EN 50525-2-31
IEC 602227-3

BASEC is applicable to BS EN 50525-2-31 wires only



CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm²	mm	°C	mm	A
1.5	0.7	70	3.3	15.5
2.5	0.8	70	4.0	21
4	0.8	70	4.6	28
6	0.8	70	5.2	36
10	1.0	70	6.7	50
16	1.0	70	7.8	68
25	1.2	70	9.7	89
35	1.2	70	10.9	110
50	1.4	70	12.8	134
70	1.4	70	14.6	171
95	1.6	70	17.1	207
120	1.6	70	18.8	239
150	1.8	70	20.9	262
185	2.0	70	23.3	296
240	2.2	70	26.6	346
300	2.4	70	29.6	394
400	2.6	70	33.2	467
500	2.8	70	36.9	533
630	2.8	70	41.1	611
800	2.8	70	45.7	663
1000	3.0	70	51.0	706

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/ Ducts | Fixed or Clipped Direct on Wall | On Perforated Tray | Minimum Bending Radius

STRANDED CONDUCTOR HR-PVC INSULATED BUILDING WIRES (H07V2-R) 450/750V

APPLICATION

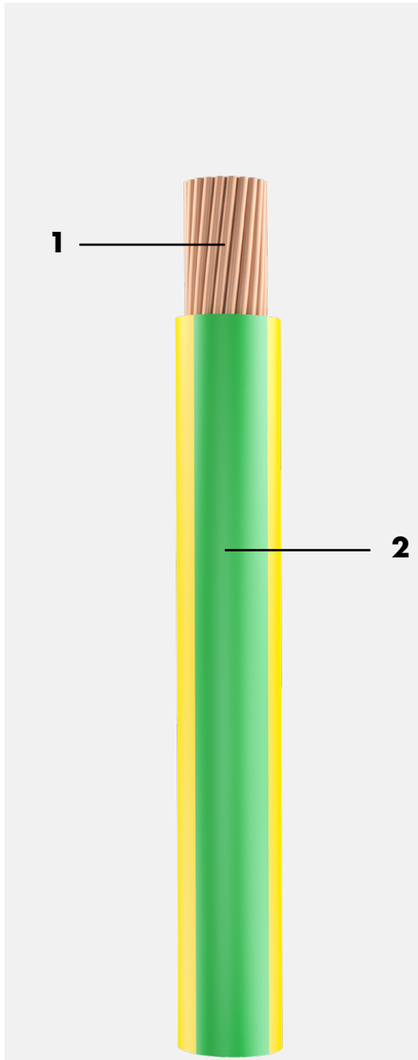
Suitable for power, lighting circuits and building wiring. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Stranded annealed plain copper conductor, extruded PVC insulation of HR-PVC Type TI 3 or PVC Type E (for 90°C application), 450/750 V Wires to BS EN 50525-2- 31 or IEC 60227-3.

1. Conductor
Annealed plain copper (multi stranded, class-2)

2. Insulation
Extruded HR-PVC Type TI 3 or PVC Type E



APPLICATION STANDARDS

BS EN 50525-2-31
IEC 60227-3

BASEC is applicable to BS EN 50525-2-31 wires only

CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	A
1.5	0.7	90	3.3	18
2.5	0.8	90	4.0	24
4	0.8	90	4.6	32
6	0.8	90	5.2	41
10	1.0	90	6.7	58
16	1.0	90	7.8	78
25	1.2	90	9.7	102
35	1.2	90	10.9	127
50	1.4	90	12.8	154
70	1.4	90	14.6	197
95	1.6	90	17.1	238
120	1.6	90	18.8	275
150	1.8	90	20.9	301
185	2.0	90	23.3	340
240	2.2	90	26.6	398
300	2.4	90	29.6	453
400	2.6	90	33.2	537
500	2.8	90	36.9	613
630	2.8	90	41.1	703
800	2.8	90	45.7	762
1000	3.0	90	51.0	812

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/ Ducts | Fixed or Clipped Direct on Wall | On Perforated Tray | Minimum Bending Radius

STRANDED CONDUCTOR LSZH INSULATED BUILDING WIRES (H07Z-R) 450/750V

APPLICATION

Suitable for power, lighting circuits and building wiring. Incorporates low smoke zero halogen insulation for use in areas where dense smoke and toxic fumes may cause a threat to life and equipment. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Stranded annealed plain copper conductor, LSZH Insulation Type EI 5 (for 90°C application), 450/750 V Wires to BS EN 50525-3-41.

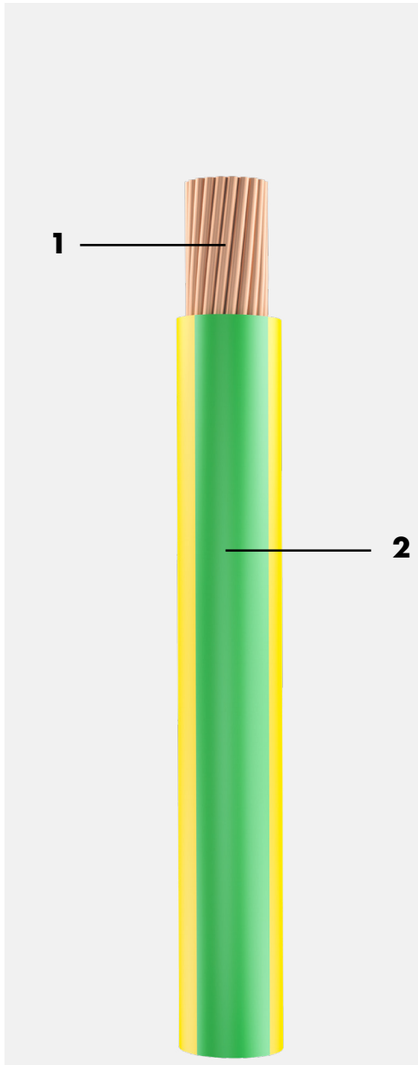
1. Conductor
Annealed plain copper (multi stranded, class-2)

2. Insulation
Extruded LSZH Type EI 5

APPLICATION STANDARDS

BS EN 50525-3-41

BASEC is applicable to BS EN 50525-3-41 wires only



CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm²	mm	°C	mm	A
1.5	0.7	90	3.4	20
2.5	0.8	90	4.1	28
4	0.8	90	4.7	37
6	0.8	90	5.4	48
10	1.0	90	7.0	66
16	1.0	90	8.0	88
25	1.2	90	10.1	117
35	1.2	90	11.3	144
50	1.4	90	13.2	175
70	1.4	90	15.1	222
95	1.6	90	17.6	269
120	1.6	90	19.4	312
150	1.8	90	21.6	342
185	2.0	90	24.1	384
240	2.2	90	27.5	450
300	2.4	90	30.6	514
400	2.6	90	34.3	584
500	2.8	90	28.2	666
630	2.8	90	4.5	764

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/ Ducts

Fixed or Clipped Direct on Wall

On Perforated Tray

Minimum Bending Radius

FLEXIBLE CONDUCTOR PVC INSULATED BUILDING WIRES (H07V-K) 450/750V

APPLICATION

For use in applications where greater flexibility is required to assist installation. Suitable for power, lighting circuits and building wiring. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Multi stranded flexible annealed plain copper conductor, extruded PVC insulation of PVC Type TI 1 or PVC Type C (for 70°C application), 450/750 V Wires to BS EN 50525-2-31 or IEC 60227-3.

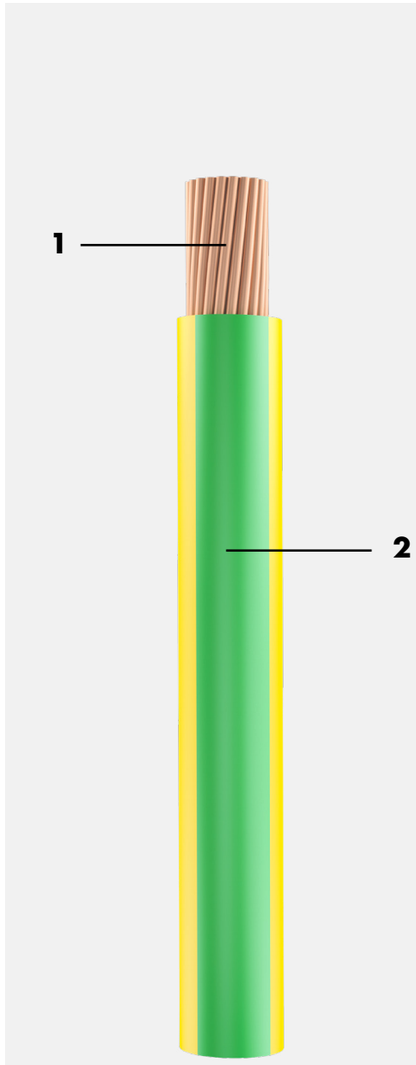
1. Conductor
Annealed plain copper (multi stranded flexible, class-5)

2. Insulation
Extruded PVC Type TI 1 or PVC Type C

APPLICATION STANDARDS

BS EN 50525-2-31
IEC 60227-3

BASEC is applicable to
BS EN 50525-2-31 wires only



CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	A
1.5	0.7	70	3.4	15.5
2.5	0.8	70	4.1	21
4	0.8	70	4.8	28
6	0.8	70	5.3	36
10	1.0	70	6.8	50

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/
Ducts

Fixed or Clipped
Direct on Wall

On Perforated
Tray

Minimum
Bending Radius

FLEXIBLE CONDUCTOR HR-PVC INSULATED BUILDING WIRES (H07V2-K) 450/750V

APPLICATION

For use in applications where greater flexibility is required to assist installation. Suitable for power, lighting circuits and building wiring. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Multi stranded flexible annealed plain copper conductor, extruded PVC insulation of HR-PVC Type TI 3 or PVC Type E (for 90°C application), 450/750 V Wires to BS EN 50525-2-31 or IEC 60227-3.

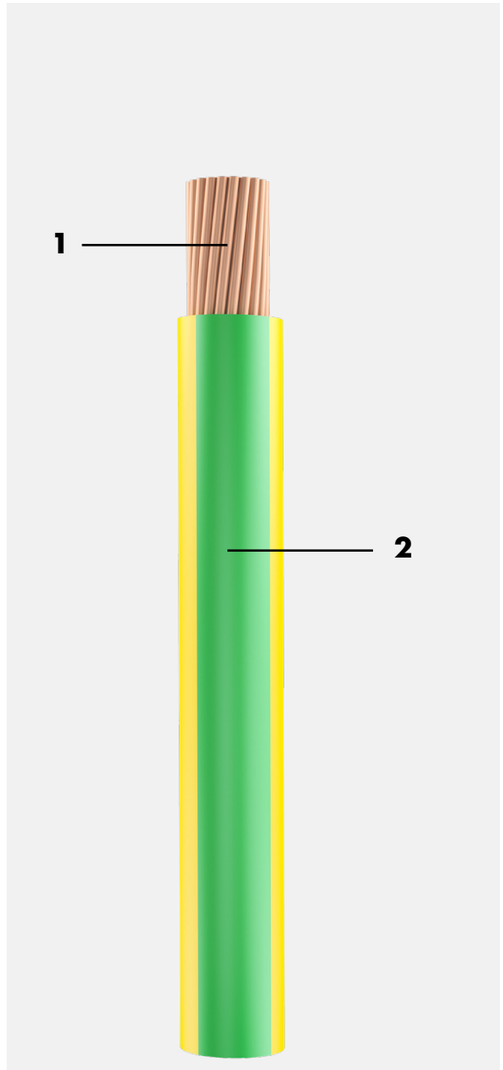
1. Conductor
Annealed plain copper (multi stranded flexible, class-5)

2. Insulation
Extruded HR-PVC Type TI 3 or PVC Type E

APPLICATION STANDARDS

BS EN 50525-2-31
IEC 60227-3

BASEC is applicable to
BS EN 50525-2-31 wires only



CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	A
1.5	0.7	90	3.4	18
2.5	0.8	90	4.1	24
4	0.8	90	4.8	32
6	0.8	90	5.3	41
10	1.0	90	6.8	57.5

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/
Ducts

Fixed or Clipped
Direct on Wall

On Perforated
Tray

Minimum
Bending Radius

FLEXIBLE CONDUCTOR LSZH INSULATED BUILDING WIRES (H07Z-K) 450/750V

APPLICATION

For use in applications where greater flexibility is required to assist installation. Incorporates low smoke zero halogen insulation for use in areas where dense smoke and toxic fumes may cause a threat to life and equipment. Suitable for power, lighting circuits and building wiring. The cable is intended for use in the indoor, distribution in conduits as well as in closed installation ducts, and is ideal for the internal wiring of appliances and apparatus.

CONSTRUCTION

Multi stranded flexible annealed plain copper conductor, LSZH Insulation Type EI 5 (for 90°C application), 450/750 V Wires to BS EN 50525-3-41.

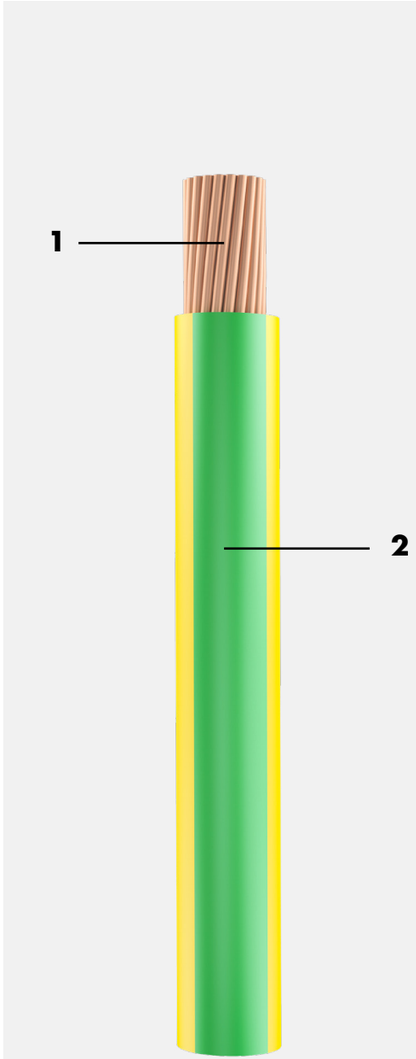
1. Conductor
Annealed plain copper (multi stranded flexible, class-5)

2. Insulation
Extruded LSZH Type EI 5

APPLICATION STANDARDS

BS EN 50525-3-41

BASEC is applicable to BS EN 50525-3-41 wires only



CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	A
1.5	0.7	90	3.5	20
2.5	0.8	90	4.3	28
4	0.8	90	4.9	37
6	0.8	90	5.5	48
10	1.0	90	7.1	66

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/ Ducts

Fixed or Clipped Direct on Wall

On Perforated Tray

Minimum Bending Radius

STRANDED CONDUCTOR PVC INSULATED WIRES 600/1000V

APPLICATION

Suitable for power, lighting circuits and building wiring. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

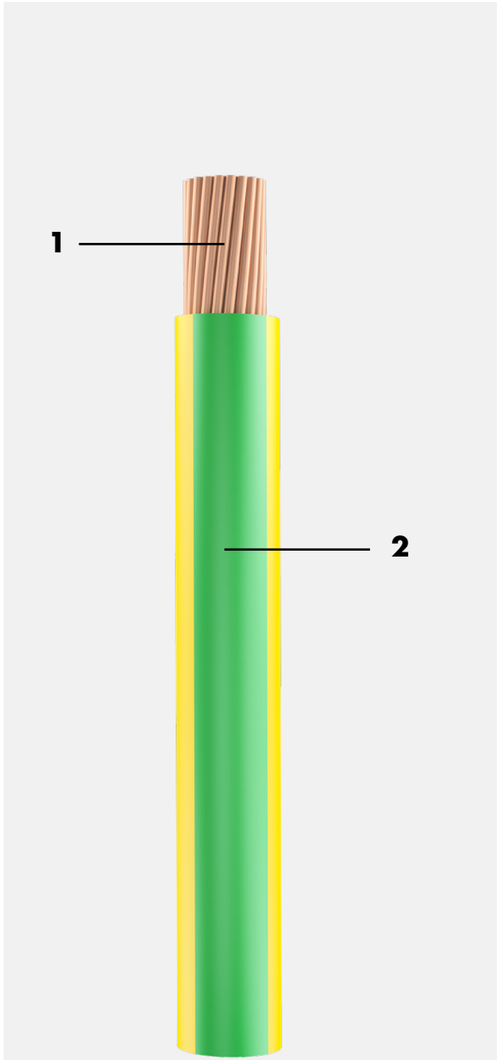
Stranded annealed plain copper conductor, PVC (Type A) Insulation (for 70°C application), 600/1000 V Wires to IEC 60502-1.

1. Conductor
Annealed plain copper (multi stranded, class-2)

2. Insulation
Extruded PVC (Type A)

APPLICATION STANDARDS

IEC 60502-1



CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS

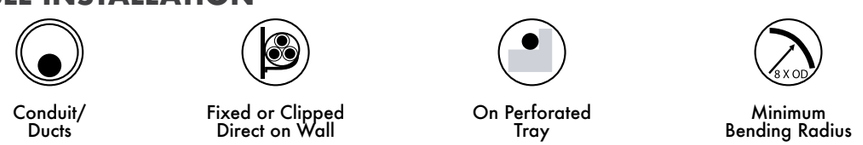
CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	A
1.5	0.8	70	3.3	15.5
2.5	0.8	70	3.7	21
4	1.0	70	4.6	28
6	1.0	70	5.2	36
10	1.0	70	6.1	50
16	1.0	70	7.0	68
25	1.2	70	8.5	89
35	1.2	70	9.5	110
50	1.4	70	11.5	134
70	1.4	70	13.0	171
95	1.6	70	15.0	207
120	1.6	70	16.5	239
150	1.8	70	18.0	262
185	2.0	70	20.5	296
240	2.2	70	23.0	346
300	2.4	70	25.5	394
400	2.6	70	29.0	467
500	2.8	70	32.5	533
630	2.8	70	36.0	611
800	2.8	70	40.0	663
1000	3.0	70	44.5	706

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION



Conduit/ Ducts | Fixed or Clipped Direct on Wall | On Perforated Tray | Minimum Bending Radius

STRANDED CONDUCTOR XLPE INSULATED WIRES 600/1000V

APPLICATION

Suitable for power, lighting circuits and building wiring. These wires are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

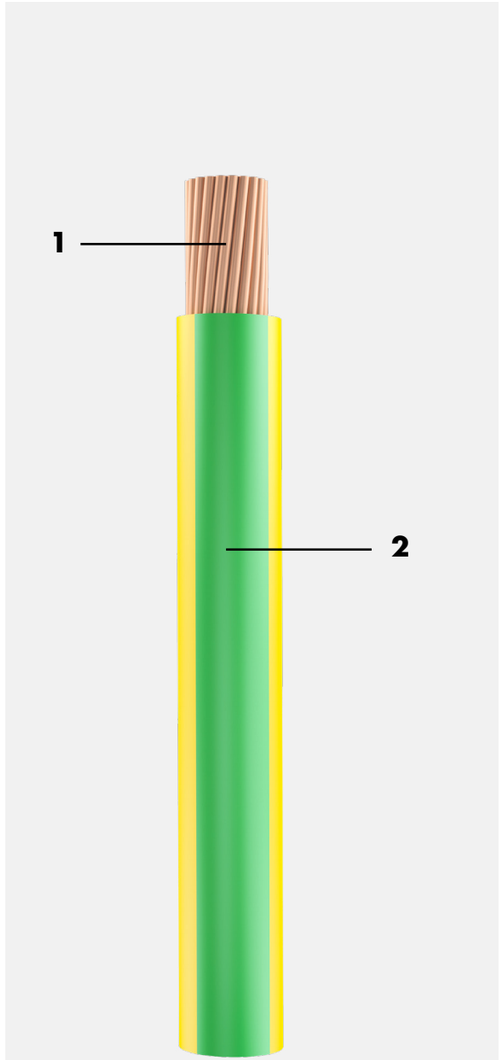
Stranded annealed plain copper conductor, XLPE Insulation (for 90°C application), 600/1000 V Wires to IEC 60502-1.

1. Conductor
Annealed plain copper (multi stranded, class-2)

2. Insulation
Extruded XLPE

APPLICATION STANDARDS

IEC 60502-1



CORE COLOUR IDENTIFICATION

Depending upon the project requirements, Oman Cables can provide various other colours e.g. Grey, White, Orange, Pink, Turquoise, Violet etc.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	A
1.5	0.7	90	3.1	20
2.5	0.7	90	3.5	28
4	0.7	90	4.0	37
6	0.7	90	4.6	48
10	0.7	90	5.5	66
16	0.7	90	6.5	88
25	0.9	90	8.0	117
35	0.9	90	9.0	144
50	1.0	90	10.5	175
70	1.1	90	12.5	222
95	1.1	90	14.0	269
120	1.2	90	15.5	312
150	1.4	90	17.5	342
185	1.6	90	19.5	284
240	1.7	90	22.0	450
300	1.8	90	24.5	514
400	2.0	90	27.5	584
500	2.2	90	31.0	666
630	2.4	90	35.0	764
800	2.6	90	39.5	835
1000	2.8	90	44.0	900

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/ Ducts

Fixed or Clipped Direct on Wall

On Perforated Tray

Minimum Bending Radius

SOLID CONDUCTOR PVC INSULATED, PVC SHEATHED CABLES (6181Y) 300/500V

APPLICATION

Suitable for domestic and light industrial wiring and can be installed on tray, free air or dlipped direct. It should be installed into areas where there is low risk of mechanical damage. Also used for transferring electrical signals among different control units and also used in alarm systems.

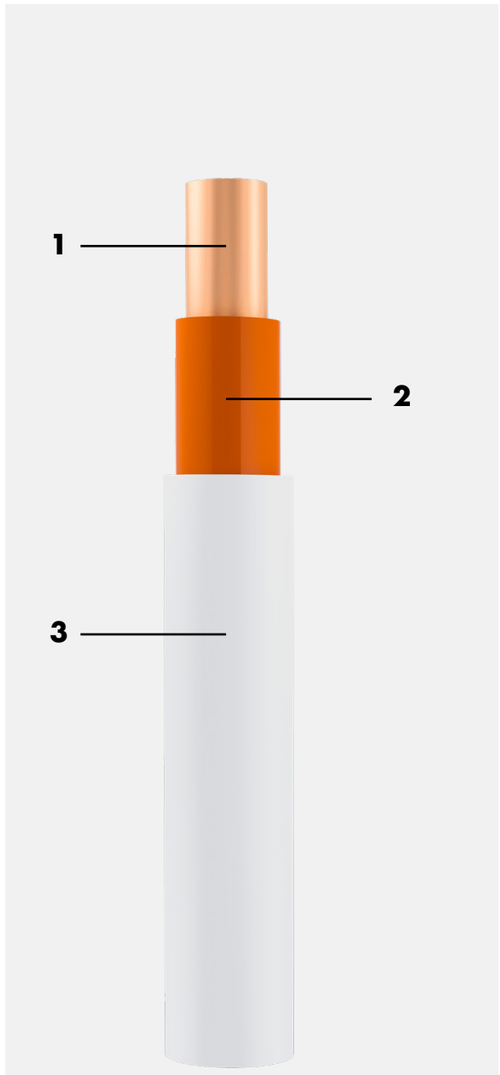
CONSTRUCTION

Single core solid annealed plain copper conductor, PVC Type TI 1 insulation (for 70°C application), Overall PVC Type 6 Sheath, 300/500 V Cables to BS 6004. Sheath colour shall be Grey or any other colour as mutually agreed.

1. Conductor
Annealed plain copper (single strand solid, class-1)

2. Insulation
Extruded PVC Type TI 1

3. Sheath
Extruded PVC Type 6



APPLICATION STANDARDS

BS 6004

BASEC is applicable to BS 6004 wires only

CORE COLOUR IDENTIFICATION

Note: Insulation colour shall be Brown or Blue as per BS 6004. However, Oman Cables has the capability to provide color identification as per project requirements.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	APPROX. OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	mm	A
1.0	0.6	70	0.8	4.5	12
1.5	0.7	70	0.8	5.0	15.5
2.5	0.8	70	0.8	5.7	21

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

These cables are supplied in our standard wooden/steel drums for 1,000 meters or as mutually agreed

CABLE INSTALLATION

Conduit/ Ducts

Fixed or Clipped Direct on Wall

On Perforated Tray

Minimum Bending Radius

STRANDED CONDUCTOR PVC INSULATED, PVC SHEATHED CABLES (6181Y) 300/500V

APPLICATION

Suitable for domestic and light industrial wiring and can be installed on tray, free air or clipped direct. It should be installed into areas where there is low risk of mechanical damage. Also used for transferring electrical signals among different control units and also used in alarm systems.

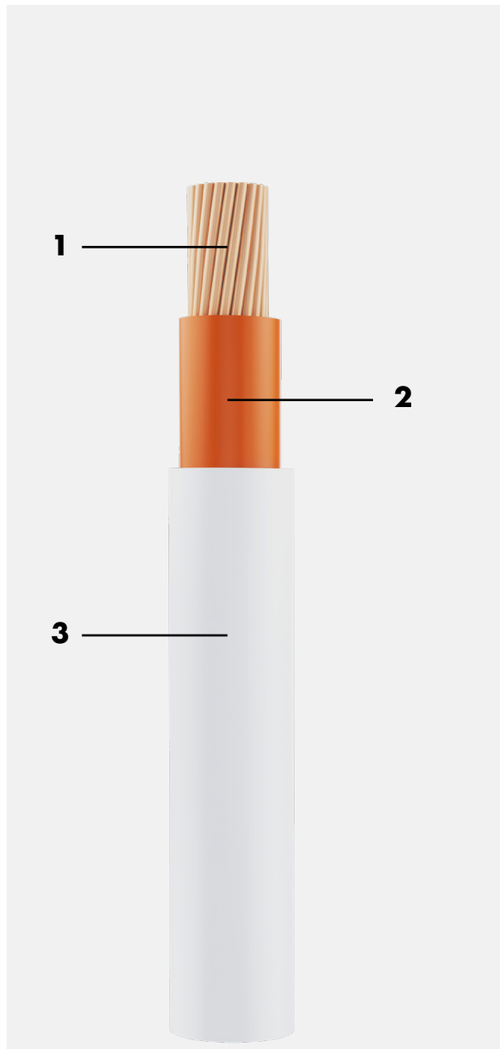
CONSTRUCTION

Single core stranded annealed plain copper conductor, PVC Type TI 1 insulation (for 70°C application), Overall PVC Type 6 Sheath, 300/500 V Cables to BS 6004. Outer sheath colour shall be Grey or any other colour as mutually agreed.

1. Conductor
Annealed plain copper (multi stranded class-2)

2. Insulation
Extruded PVC Type TI 1

3. Sheath
Extruded PVC Type 6



APPLICATION STANDARDS

BS 6004

BASEC is applicable to BS 6004 wires only

CORE COLOUR IDENTIFICATION

Note: Insulation colour shall be Brown or Blue as per BS 6004. However, Oman Cables has the capability to provide color identification as per project requirements.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	APPROX. OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	mm	A
4	0.8	70	0.9	6.7	28
6	0.9	70	0.9	7.3	36
10	1.0	70	0.9	8.8	50
16	1.0	70	1.0	10.1	68
25	1.2	70	1.1	12.1	89
35	1.2	70	1.1	13.5	110

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Wires shall be supplied in coils / spools of 100 yard or 500 meters & drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/ Ducts

Fixed or Clipped Direct on Wall

On Perforated Tray

Minimum Bending Radius

SOLID CONDUCTOR XLPE INSULATED, LSZH SHEATHED CABLES 450/750V

APPLICATION

Incorporates low smoke zero halogen outer sheath for use in areas where dense smoke and toxic fumes may cause a threat to life and equipment. Suitable for domestic and light industrial wiring and can be installed on tray, free air or clipped direct. It should be installed into areas where there is low risk of mechanical damage. Also used for transferring electrical signals among different control units and also used in alarm systems.

CONSTRUCTION

Single core solid annealed plain copper conductor, XLPE Type GP 8 Insulation (for 90°C application), Overall LSZH Type LTS 4 Sheath, 450/750 V Cables to BS 7211. Outer sheath colour shall be White or any other colour as mutually agreed.

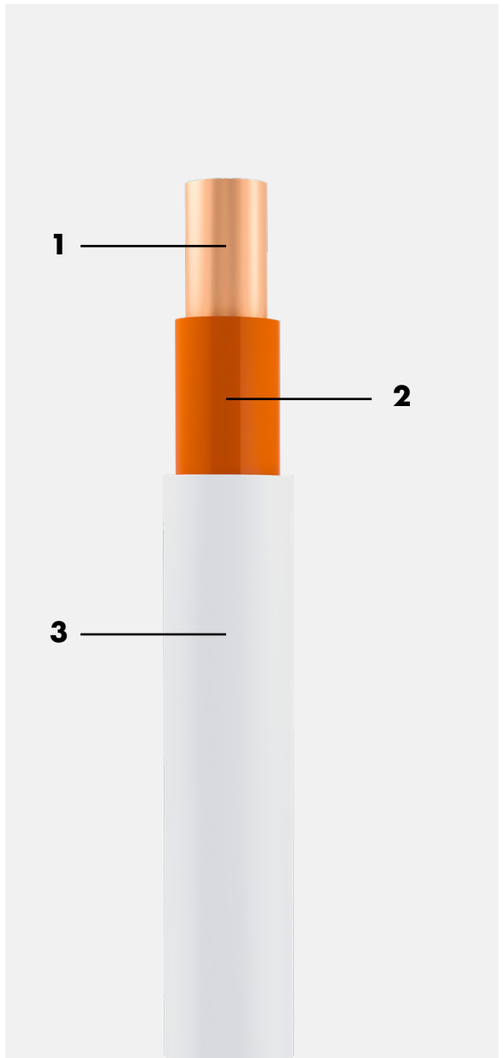
1. Conductor
Annealed plain copper (single strand solid, class-1)

2. Insulation
Extruded XLPE Type GP 8

3. Sheath
Extruded LSZH Type LTS 4

APPLICATION STANDARDS

BS 7211



CORE COLOUR IDENTIFICATION

Note: Insulation colour shall be Brown or Blue as per BS 6004. However, Oman Cables has the capability to provide color identification as per project requirements.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	APPROX. OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	mm	A
1.0	0.7	90	0.8	4.8	15
1.5	0.7	90	0.8	5.0	20
2.5	0.7	90	0.8	5.5	28
4	0.7	90	0.9	6.3	37
6	0.7	90	0.9	6.8	48

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

These cables are supplied in our standard wooden/steel drums for 1,000 meters or as mutually agreed.

CABLE INSTALLATION

Conduit/ Ducts

Fixed or Clipped Direct on Wall

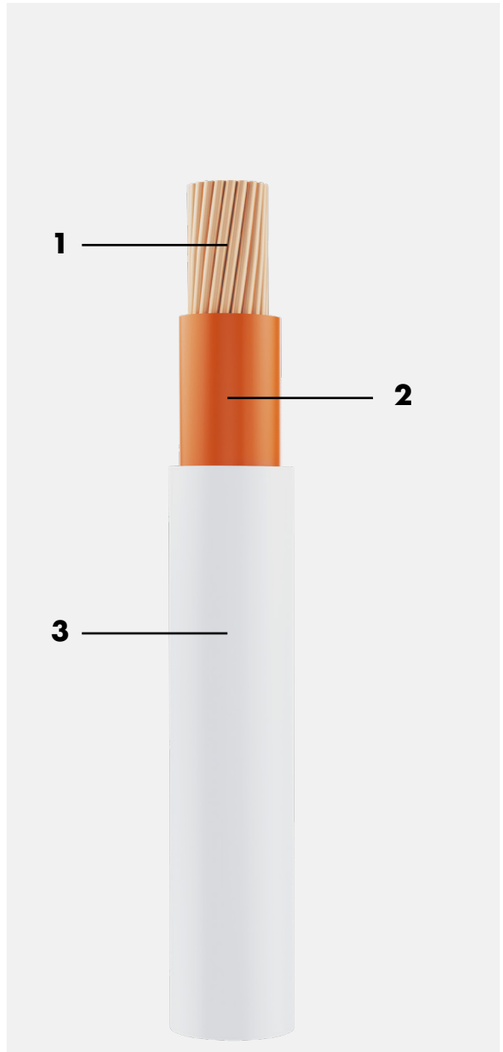
On Perforated Tray

Minimum Bending Radius

STRANDED CONDUCTOR XLPE INSULATED, LSZH SHEATHED CABLES 450/750V

APPLICATION

Incorporates low smoke zero halogen outer sheath for use in areas where dense smoke and toxic fumes may cause a threat to life and equipment. Suitable for domestic and light industrial wiring and can be installed on tray, free air or clipped direct. It should be installed into areas where there is low risk of mechanical damage. Also used for transferring electrical signals among different control units and also used in alarm systems.



CONSTRUCTION

Single core stranded annealed plain copper conductor, XLPE Type GP 8 Insulation (for 90°C application), Overall LSZH Type LTS 4 Sheath, 450/750 V Cables to BS 7211. Outer sheath colour shall be White or any other colour as mutually agreed.

1. Conductor
Annealed plain copper (multi stranded class-2)

2. Insulation
Extruded XLPE Type GP 8

3. Sheath
Extruded LSZH Type LTS 4

APPLICATION STANDARDS

BS 7211

CORE COLOUR IDENTIFICATION

Note: Insulation colour shall be Brown or Blue as per BS 6004. However, Oman Cables has the capability to provide color identification as per project requirements.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	APPROX. OVERALL DIAMETER	CURRENT RATING
mm^2	mm	°C	mm	mm	A
1.5	0.7	90	0.8	5.2	20
2.5	0.7	90	0.8	5.6	28
4	0.7	90	0.9	6.4	37
6	0.7	90	0.9	7.1	48
10	0.7	90	0.9	8.1	66
16	0.7	90	0.9	9.2	88
25	0.9	90	1.0	11.4	117
35	0.9	90	1.1	12.8	144

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

These cables are supplied in our standard wooden/steel drums for 1,000 meters or as mutually agreed.

CABLE INSTALLATION

Conduit/ Ducts

Fixed or Clipped Direct on Wall

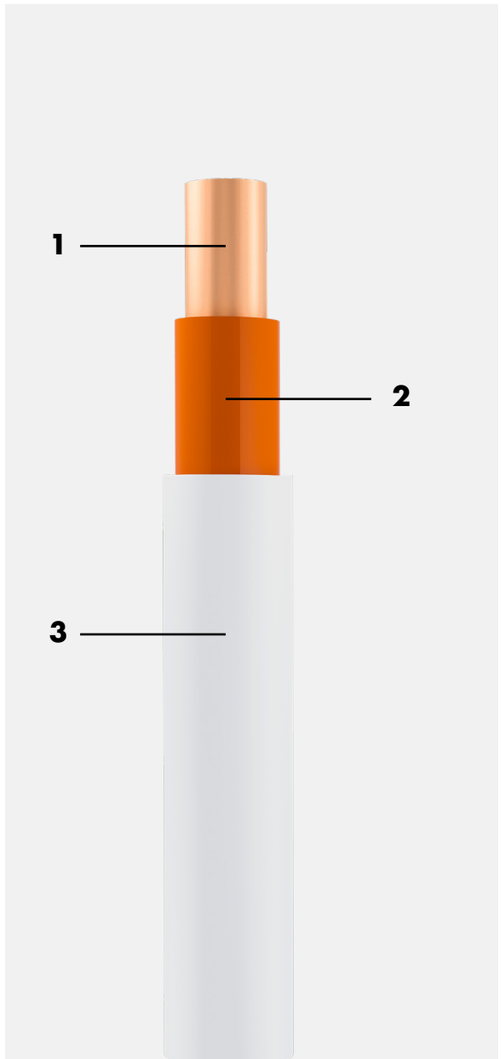
On Perforated Tray

Minimum Bending Radius

SOLID CONDUCTOR LSZH INSULATED, LSZH SHEATHED CABLES 450/750V

APPLICATION

Incorporates low smoke zero halogen insulation for use in areas where dense smoke and toxic fumes may cause a threat to life and equipment. Suitable for domestic and light industrial wiring and can be installed on tray, free air or clipped direct. It should be installed into areas where there is low risk of mechanical damage. Also used for transferring electrical signals among different control units and also used in alarm systems.



CONSTRUCTION

Single core solid annealed plain copper conductor, LSZH Type EI 5 Insulation (for 90°C application), Overall LSZH Type LTS 4 Sheath, 450/750 V Cables to BS 7211. Outer sheath colour shall be White or any other colour as mutually agreed.

1. Conductor
Annealed plain copper (single strand solid, class-1)

2. Insulation
Extruded LSZH Type EI 5

3. Sheath
Extruded LSZH Type LTS 4

APPLICATION STANDARDS

BS 7211

CORE COLOUR IDENTIFICATION

Note: Insulation colour shall be Brown or Blue as per BS 6004. However, Oman Cables has the capability to provide color identification as per project requirements.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	APPROX. OVERALL DIAMETER	CURRENT RATING
mm²	mm	°C	mm	mm	A
1.0	0.7	90	0.8	4.8	15
1.5	0.7	90	0.8	5.0	20
2.5	0.7	90	0.8	5.5	28
4	0.7	90	0.9	6.3	37
6	0.7	90	0.9	6.8	48

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

These cables are supplied in our standard wooden/steel drums for 1,000 meters or as mutually agreed.

CABLE INSTALLATION

Conduit/ Ducts | Fixed or Clipped Direct on Wall | On Perforated Tray | Minimum Bending Radius

STRANDED CONDUCTOR LSZH INSULATED, LSZH SHEATHED CABLES 450/750V

APPLICATION

Incorporates low smoke zero halogen insulation for use in areas where dense smoke and toxic fumes may cause a threat to life and equipment. Suitable for domestic and light industrial wiring and can be installed on tray, free air or clipped direct. It should be installed into areas where there is low risk of mechanical damage. Also used for transferring electrical signals among different control units and also used in alarm systems.

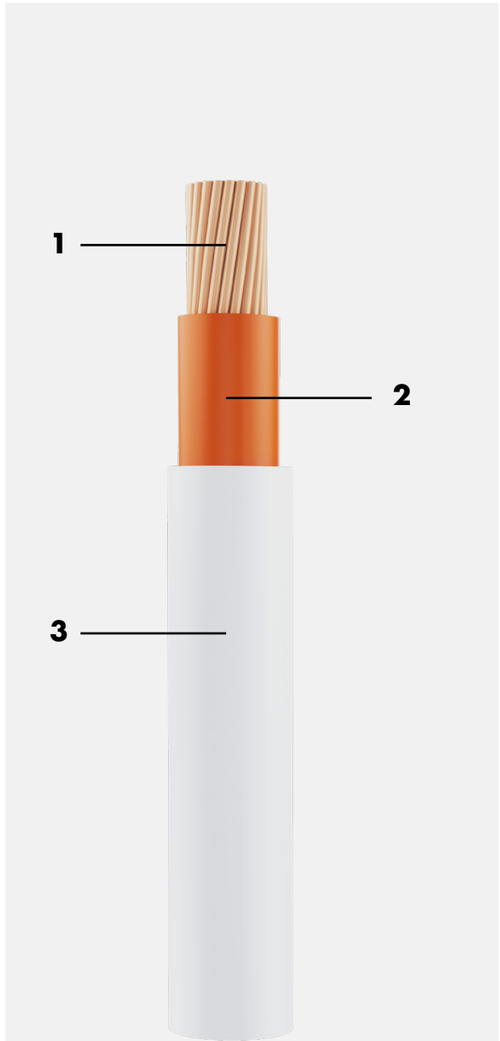
CONSTRUCTION

Single core stranded annealed plain copper conductor, LSZH Type EI 5 Insulation (for 90°C application), Overall LSZH Type LTS 4 Sheath, 450/750 V Cables to BS 7211. Outer sheath colour shall be White or any other colour as mutually agreed.

1. Conductor
Annealed plain copper (multi stranded class-2)

2. Insulation
Extruded LSZH Type EI 5

3. Sheath
Extruded LSZH Type LTS 4



APPLICATION STANDARDS

BS 7211

CORE COLOUR IDENTIFICATION

Note: Insulation colour shall be Brown or Blue as per BS 6004. However, Oman Cables has the capability to provide color identification as per project requirements.

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OVERALL DIAMETER	APPROX. OVERALL DIAMETER	CURRENT RATING
mm²	mm	°C	mm	mm	A
1.5	0.7	90	0.8	5.2	20
2.5	0.7	90	0.8	5.6	28
4	0.7	90	0.9	6.4	37
6	0.7	90	0.9	7.1	48
10	0.7	90	0.9	8.1	66
16	0.7	90	0.9	9.2	88
25	0.9	90	1.0	11.4	117
35	0.9	90	1.1	12.8	144

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

These cables are supplied in our standard wooden/steel drums for 1,000 meters or as mutually agreed.

CABLE INSTALLATION

Conduit/ Ducts

Fixed or Clipped Direct on Wall

On Perforated Tray

Minimum Bending Radius

Flexible Cables

PVC INSULATED FLEXIBLE CABLE 300/500V

APPLICATION

For use in applications where greater flexibility is required to assist installation. Suitable for power, lighting circuits and building wiring. These cables are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Flexible cable consists of two cores, three cores or four cores of the following construction

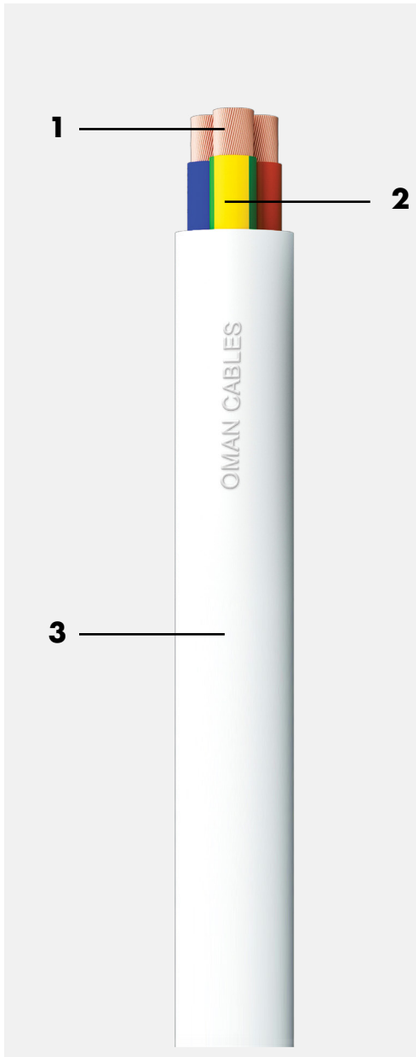
1. Conductor
Annealed plain copper (multi stranded flexible, class-5)

2. Insulation
Extruded PVC TI 1

3. **Outer sheath**
Extruded PVC type TM 1

APPLICATION STANDARDS

BS EN 50525-2-11



CORE COLOUR IDENTIFICATION

Two Cores

Three Cores

Four Cores

Depending upon the project requirements, Oman Cables can provide other core colors like BS old colors (Red, Blue, Yellow)

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	APPROX OVERALL DIAMETER FOR TWO CORE CABLE	APPROX OVERALL DIAMETER FOR THREE CORE CABLE	APPROX OVERALL DIAMETER FOR FOUR CORE CABLE	CURRENT RATING
mm^2	mm	°C	mm	mm	mm	A
0.8	0.6	70	7.0	7.5	8.0	10
1.0	0.6	70	7.5	7.5	8.5	12
1.5	0.7	70	8.5	9.0	10.0	14
2.5	0.8	70	10.0	11.0	11.5	20
4.0	0.8	70	11.0	12.0	13.5	28
6.0	0.8	70	13.0	13.5	15.0	34
10.0	1.0	70	15.5	16.5	18.5	48

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Cable Shall be supplied in coils / spools of 100 yard or 500 meters & Drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/ Ducts

Fixed or Clipped Direct on Wall

On Perforated Tray

Minimum Bending Radius 6XOD

HR PVC INSULATED FLEXIBLE CABLE 300/500V

APPLICATION

For use in applications where greater flexibility is required to assist installation. Suitable for power, lighting circuits and building wiring. These cables are intended for use in the indoor application, distribution in conduits as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Flexible cable consists of two cores, three cores or four cores of the following construction

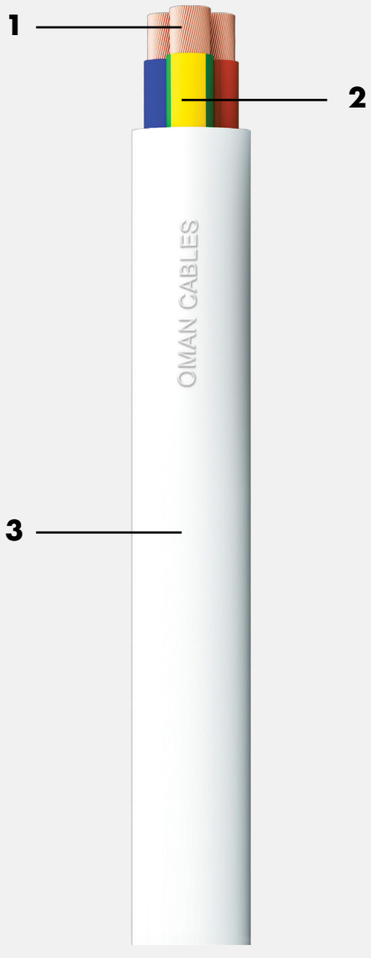
1. Conductor
Annealed plain copper (multi stranded flexible, class-5)

2. Insulation
Extruded HR PVC Type TI 3

3. Outer sheath
Extruded HR PVC type TM 3

APPLICATION STANDARDS

BS EN 50525-2-11



CORE COLOUR IDENTIFICATION

Two Cores

Three Cores

Four Cores

Depending upon the project requirements, Oman Cables can provide other core colors like BS old colors (Red, Blue, Yellow)

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	APPROX OVERALL DIAMETER FOR TWO CORE CABLE	APPROX OVERALL DIAMETER FOR THREE CORE CABLE	APPROX OVERALL DIAMETER FOR FOUR CORE CABLE	CURRENT RATING
mm^2	mm	°C	mm	mm	mm	A
0.8	0.6	90	7.0	7.5	8.0	11.5
1.0	0.6	90	7.5	7.5	8.5	14.0
1.5	0.7	90	8.5	9.0	10.0	16.0
2.5	0.8	90	10.0	11.0	11.5	22.0
4.0	0.8	90	11.0	12.0	13.5	32.0
6.0	0.8	90	13.0	13.5	15.0	38.0
10.0	1.0	90	15.5	16.5	18.5	56.0

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Cable Shall be supplied in coils / spools of 100 yard or 500 meters & Drums for 1,000 meters and above.

CABLE INSTALLATION

Conduit/ Ducts

Fixed or Clipped Direct on Wall

On Perforated Tray

Minimum Bending Radius 6XOD

LSZH INSULATED FLEXIBLE CABLE 300/500V

APPLICATION

For use in applications where greater flexibility is required to assist installation. Suitable for power, lighting circuits and building wiring. These cables are intended for use in the indoor application, distribution in conductor as well as in closed installation ducts, and for the internal wiring of appliances and apparatus.

CONSTRUCTION

Flexible cable consists of two cores, three cores or four cores of the following construction

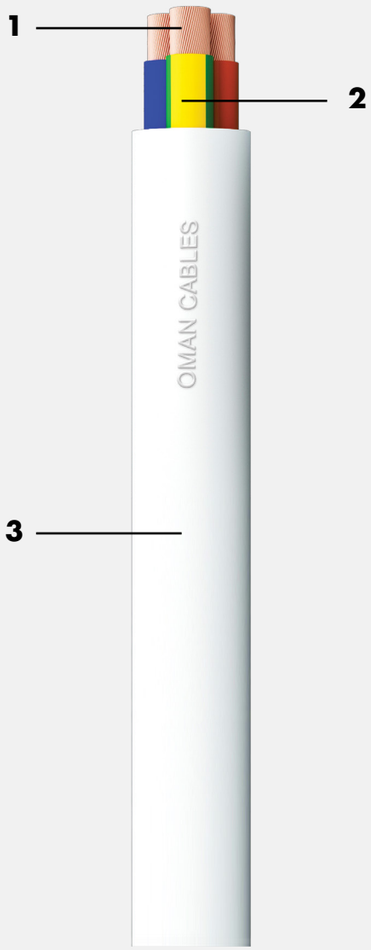
1. Conductor
Annealed plain copper (multi stranded flexible, class-5)

2. Insulation
Extruded LSZH Type EI 5

3. Outer sheath
Extruded LSZH Type LTS1

APPLICATION STANDARDS

Generally, as per BS EN 50525-2-11



CORE COLOUR IDENTIFICATION

Two Cores

Three Cores

Four Cores

Depending upon the project requirements, Oman Cables can provide other core colors like BS old colors (Red, Blue, Yellow)

CHARACTERISTICS

CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS	MAXIMUM OPERATING TEMPERATURE	APPROX OVERALL DIAMETER FOR TWO CORE CABLE	APPROX OVERALL DIAMETER FOR THREE CORE CABLE	APPROX OVERALL DIAMETER FOR FOUR CORE CABLE	CURRENT RATING
mm^2	mm	°C	mm	mm	mm	A
0.8	0.6	90	7.0	7.5	8.0	13
1.0	0.6	90	7.5	7.5	8.5	15
1.5	0.7	90	8.5	9.0	10.0	18
2.5	0.8	90	10.0	11.0	11.5	26
4.0	0.8	90	11.0	12.0	13.5	37
6.0	0.8	90	13.0	13.5	15.0	45
10.0	1.0	90	15.5	16.5	18.5	63

(Current Rating - - At 30°C, enclosed in metal conduit, 3 Phase A.C.)

PACKING

Cable Shall be supplied in coils / spools of 100 yard or 500 meters & Drums for 1,000 meter and above.

CABLE INSTALLATION

Conduit/ Ducts

Fixed or Clipped Direct on Wall

On Perforated Tray

Minimum Bending Radius 6XOD

General Tables

SINGLE CORE COPPER CONDUCTOR 70°C THERMOPLASTIC (PVC) INSULATED, UN-ARMOURED, WITH OR WITHOUT SHEATH

Table 1: Current Carrying Capacity

Ambient temperature: 30°C
Conductor operating temperature: 70°C

Reference Method A (Enclosed In Conduit In Thermally Insulating Wall Etc.)			Reference Method B (Enclosed In Conduit On A Wall Or In Trunking Etc.)		Reference Method C (Clipped Direct)		Reference Method F (In Free Air Or On A Perforated Cable Tray Horizontal Or Vertical)				
							Touching			Spaced By One Diameter	
CONDUCTOR CROSS SECTIONAL AREA	2 CABLES, SINGLEPHASE A.C. OR D.C.	3 OR 4 CABLES, THREE PHASE A.C.	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, SINGLEPHASE A.C. OR D.C. FLAT	3 CABLES, THREE-PHASE A.C. FLAT	3 CABLES, THREEPHASE A.C. TREFOIL	2 CABLES, SINGLE-PHASE A.C. OR D.C. OR 3 CABLES THREE-PHASE A.C. FLAT	
										HORIZONTAL	VERTICAL
1	2	3	4	5	6	7	8	9	10	11	12
(mm²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
1	11	10.5	13.5	12	15.5	14	-	-	-	-	-
1.5	14.5	13.5	17.5	15.5	20	18	-	-	-	-	-
2.5	20	18	24	21	27	25	-	-	-	-	-
4	26	24	32	28	37	33	-	-	-	-	-
6	34	31	41	36	47	43	-	-	-	-	-
10	46	42	57	50	65	59	-	-	-	-	-
16	61	56	76	68	87	79	-	-	-	-	-
25	80	73	101	89	114	104	131	114	110	146	130
35	99	89	125	110	141	129	162	143	137	181	162
50	119	108	151	134	182	167	196	174	167	219	197
70	151	136	192	171	234	214	251	225	216	281	254
95	182	164	232	207	284	261	304	275	264	341	311
120	210	188	269	239	330	303	352	321	308	396	362
150	240	216	300	262	381	349	406	372	356	456	419
185	273	245	341	296	436	400	463	427	409	521	480
240	321	286	400	346	515	472	546	507	485	615	569
300	367	328	458	394	594	545	629	587	561	709	659
400	-	-	546	467	694	634	754	689	656	852	795
500	-	-	626	533	792	723	868	789	749	982	920
630	-	-	720	611	904	826	1005	905	855	1138	1070

SINGLE CORE COPPER CONDUCTOR 70°C THERMOPLASTIC (PVC) INSULATED, UN-ARMOURED, WITH OR WITHOUT SHEATH

Table - 1 A: Voltage Drop

Conductor operating temperature: 70°C

CONDUCTOR CROSSSECTIONAL AREA	2 CABLES, SINGLEPHASE A.C. OR D.C.	2 Cables, Single-Phase A.C.			3 Or 4 cables, Three-Phase A.C.			
		REFERENCE METHODS A & B (ENCLOSED IN CONDUIT OR TRUNKING)	REFERENCE METHODS C & F (Clipped DIRECT, ON TRAY OR IN FREE AIR)		REFERENCE METHODS A & B (ENCLOSED IN CONDUIT OR CABLESTOUCHING CABLES SPACED* TRUNKING) CABLES SPACED* TRUNKING)	«REFERENCE METHODS C & F (Clipped Direct, ON TRY OR IN FREE AIR)»		
			CABLES TOUCHING	CABLES SPACED*		CABLES TOUCHING, TREFOIL	CABLES TOUCHING, FLAT	CABLES SPACED*, FLAT
1	2	3	4	5	6	7	8	9
(mm²)	(mV/A/m)	(mV/A/m)	(mV/A/m)	(mV/A/m)	(mV/A/m)	(mV/A/m)	(mV/A/m)	(mV/A/m)
1	44	44	44	44	38	38	38	38
1.5	29	29	29	29	25	25	25	25
2.5	18	18	18	18	15	15	15	15
4	11	11	11	11	9.5	9.5	9.5	9.5
6	7.3	7.3	7.3	7.3	6.4	6.4	6.4	6.4
10	4.4	4.4	4.4	4.4	3.8	3.8	3.8	3.8
16	2.8	2.8	2.8	2.8	2.4	2.4	2.4	2.4
25	1.75	1.80	1.75	1.80	1.55	1.50	1.55	1.55
35	1.25	1.30	1.25	1.30	1.10	1.10	1.10	1.15
50	0.93	1.0	0.95	0.97	0.85	0.82	0.84	0.86
70	0.63	0.72	0.66	0.69	0.61	0.57	0.60	0.63
95	0.46	0.56	0.50	0.54	0.48	0.43	0.47	0.51
120	0.36	0.47	0.41	0.45	0.41	0.36	0.40	0.44
150	0.29	0.41	0.34	0.39	0.36	0.30	0.34	0.40
185	0.23	0.37	0.29	0.35	0.32	0.26	0.31	0.36
240	0.180	0.33	0.25	0.31	0.29	0.22	0.27	0.34
300	0.145	0.31	0.22	0.29	0.27	0.190	0.25	0.32
400	0.105	0.29	0.20	0.27	0.25	0.175	0.24	0.31
500	0.086	0.28	0.185	0.26	0.25	0.160	0.23	0.30
630	0.068	0.27	0.175	0.25	0.24	0.150	0.22	0.29

MKXXS001.05-23

Note: Spacing larger than one cable diameter will result in a larger voltage drop

SINGLE-CORE 90°C THERMOSETTING INSULATED (XLPE OR LSZH) CABLES, NON-ARMOURED, WITH OR WITHOUT SHEATH

Table 2: Current Carrying Capacity

Ambient temperature: 30°C
Conductor operating temperature: 90°C

Reference Method A (Enclosed In Conduit In Thermally Insulating Wall Etc.)			Reference Method B (Enclosed In Conduit On A Wall Or In Trunking Etc.)		Reference Method C (Clipped Direct)		Reference Method F (In Free Air Or On A Perforated Cable Tray Horizontal Or Vertical)		
							Touching		
CONDUCTOR CROSS SECTIONAL AREA	2 CABLES, SINGLEPHASE A.C. OR D.C.	3 OR 4 CABLES, THREE PHASE A.C.	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, SINGLEPHASE A.C. OR D.C. FLAT	3 CABLES, THREE-PHASE A.C. FLAT	3 CABLES, THREEPHASE A.C. TREFOIL
1	2	3	4	5	6	7	8	9	10
(mm²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
1	14	13	17	15	19	17.5	-	-	-
1.5	19	17	23	20	25	23	-	-	-
2.5	26	23	31	28	34	31	-	-	-
4	35	31	42	37	46	41	-	-	-
6	45	40	54	48	59	54	-	-	-
10	61	54	75	66	81	74	-	-	-
16	81	73	100	88	109	99	-	-	-
25	106	95	133	117	143	130	161	114	135
35	131	117	164	144	176	161	200	176	169
50	158	141	198	175	228	209	242	216	207
70	200	179	253	222	293	268	310	279	268
95	241	216	306	269	355	326	377	342	328
120	278	249	354	312	413	379	437	400	383
150	318	285	393	342	476	436	504	464	444
185	362	324	449	384	545	500	575	533	510
240	424	380	528	450	644	590	679	634	607
300	486	435	603	514	743	681	783	736	703
400	-	-	683	584	868	793	940	868	823
500	-	-	783	666	990	904	1083	998	946
630	-	-	900	764	1130	1033	1254	1151	1088

SINGLE CORE COPPER CONDUCTOR 90°C THERMOPLASTIC (XLPE OR LSZH) INSULATED, UN-ARMOURED, WITH OR WITHOUT SHEATH

Table - 2 A: Voltage Drop

Conductor operating temperature: 90°C

CONDUCTOR CROSSSECTIONAL AREA	2 CABLES, D.C.	2 Cables, Single-Phase A.C.			3 Or 4 Cables, Three-Phase A.C.			
		REFERENCE METHODS A & B (ENCLOSED IN CONDUIT OR TRUNKING)	REFERENCE METHODS C & F (Clipped DIRECT, ON TRAY OR IN FREE AIR)		REFERENCE METHODS A & B (ENCLOSED IN CONDUIT OR CABLES TOUCHING CABLES SPACED* TRUNKING)	«REFERENCE METHODS C & F (Clipped Direct, ON TRY OR IN FREE AIR)»		
			CABLES TOUCHING	CABLES SPACED*		CABLES TOUCHING, TREFOIL	CABLES TOUCHING, FLAT	CABLES SPACED*, FLAT
1	2	3	4	5	6	7	8	9
(mm²)	(mV/A/m)	(mV/A/m)	(mV/A/m)	(mV/A/m)	(mV/A/m)	(mV/A/m)	(mV/A/m)	(mV/A/m)
1	46	46	46	46	40	40	40	40
1.5	31	31	31	31	27	27	27	27
2.5	19	19	19	19	16	16	16	16
4	12	12	12	12	10	10	10	10
6	7.9	7.9	7.9	7.9	6.8	6.8	6.8	6.8
10	4.7	4.7	4.7	4.7	4.0	4.0	4.0	4.0
16	2.9	2.9	2.9	2.9	2.5	2.5	2.5	2.5
25	1.85	1.90	1.85	1.85	1.65	1.60	1.60	1.65
35	1.35	1.35	1.35	1.35	1.15	1.15	1.15	1.20
50	0.99	1.05	1.00	1.0	0.90	0.87	0.87	0.89
70	0.68	0.75	0.71	0.73	0.65	0.61	0.62	0.65
95	0.49	0.58	0.52	0.56	0.50	0.45	0.46	0.49
120	0.39	0.48	0.43	0.47	0.42	0.37	0.38	0.42
150	0.32	0.43	0.36	0.41	0.37	0.31	0.32	0.37
185	0.25	0.37	0.30	0.36	0.32	0.26	0.28	0.33
240	0.190	0.33	0.25	0.31	0.29	0.22	0.24	0.29
300	0.155	0.31	0.22	0.29	0.27	0.195	0.21	0.27
400	0.120	0.29	0.20	0.27	0.25	0.175	0.195	0.26
500	0.093	0.28	0.185	0.26	0.24	0.160	0.180	0.25
630	0.072	0.27	0.175	0.25	0.23	0.150	0.170	0.24

Note: Spacing larger than one cable diameter will result in a larger voltage drop

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INSTALLATION METHODS FOR WIRES/CABLES

TABLE - 3

EXAMPLES	DESCRIPTION	REFERENCE METHOD TO BE USED TO DETERMINE CURRENT CARRYING CAPACITY
	Non-sheathed cables in conduit in a thermally insulated wall with an inner skin having a thermal conductance of not less than 10 W/m^2K	A
	Non-sheathed cables in a conduit on a wooden or masonry wall or spaced less than 0.3 x conduit diameter from it[c]	B
	Single-core or multicore cables: Fixed on (Clipped Direct), or spaced less than 0.3 x cable diameter from wooden or masonry wall[c]	C
	Single-core or multicore cables: On perforated tray run horizontally or vertically[c,h]	E or F

C Care is needed where the cable runs vertically and ventilation is restricted. The ambient temperature at the top of the vertical section can be much higher.

H De = the external diameter of a multicore cable:
- 2.2 x the cable diameter when three single core cables are bound in trefoil, or
- 3 x the cable diameter when three single core cables are laid in flat formation

RATING FACTORS

TABLE - 4

The tabulated ratings must be reduced for ambient air temperatures higher than 30°C; appropriate temperature ratings factors are as follows:

AMBIENT TEMPERATURE	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
PVC (70°C)	1.03	1	0.94	0.87	0.79	0.71	0.61	0.5
HR-PVC/XLPE/ LSZH (90°C)	1.02	1	0.96	0.91	0.87	0.82	0.76	0.71

GROUP RATING FACTORS

TABLE - 5

Rating factors for one circuit or one multicore cable or for a group of circuits, or a group of multicore cables, to be used with current carrying capacities of table 1 & 2

NUMBER OF CIRCUITS OR MULTICORE CABLES													
Arrangement (cables touching)	1	2	3	4	5	6	7	8	9	12	16	20	To be used with current carrying capacities, Reference
Bunched in air, on a surface, embedded or enclosed	1.00	0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50	0.45	0.41	0.38	Methods A to F
Single layer on wall or floor	1.00	0.85	0.79	0.75	0.73	0.72	0.72	0.71	0.70	0.70	0.70	0.70	Method C

NOTE 1: These factors are applicable to uniform groups of cables, equally loaded.
NOTE 2: Where horizontal clearances between adjacent cables exceeds twice their overall diameter, no rating factor need be applied.
NOTE 3: If a group consists of n single-core cables it may either be considered as n/2 circuits of two loaded conductors or n /3 circuits of three loaded conductors.

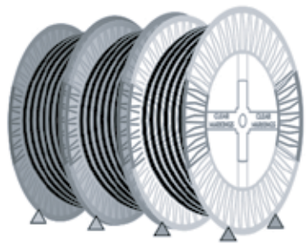
Storage and Installation

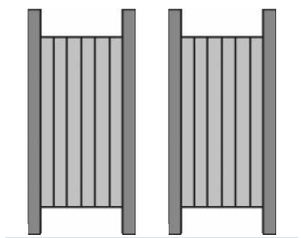
STORAGE

Cables should be stored with special care to prevent immediate as well as mid-term failures. The below recommendations are for both indoor and outdoor storage applications. Additional measures need to be considered for outdoor drum storage considering the surrounding environmental conditions and in accordance with cable specifications; LSZH, PVC or PE as applicable.

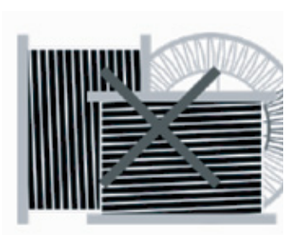
- Cables must be stored in proper packed condition, in the shade. Direct exposure to sun must be avoided.
- Drums should be stacked flange-to-flange and preferably not on top of each other.
- Drums should be stacked so that they are easily accessible.
- Fire prevention rules should be observed.
- Cable types shall be kept together and shall be easily identifiable.
- Cable ends must be sealed at all times.
- If drums are expected to be stored for a long time they should be specially treated, or, if applicable, use pesticides at regular intervals in the storage area to avoid termite and rodent attack on wooden drums.
- Drums must be chocked to prevent inadvertent rolling during storage.
- Dispatch on a "first in – first out" (FIFO) basis.

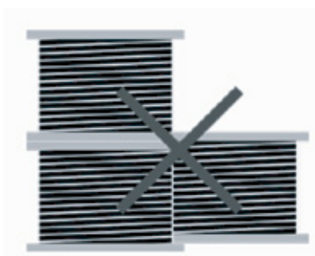
RECOMMENDED





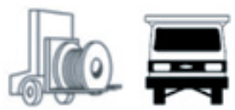
NOT RECOMMENDED





DRUM HANDLING INSTRUCTIONS

RECOMMENDED



Lift drums correctly onto/ from trucks while loading and unloading. Cradle both fringes between forks

Lifting drums through both flanges using crane

Roll in the direction shown by the arrow

Lower reels from truck using hydraulic gate, hoist or fork lift. Lower carefully

Always load with flanges on edge and check and block securely

Secure drums adequately before transportation

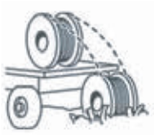
RECOMMENDED

Do not lift by top flange, Cable or reel

The reel flanges and mashes the cable

Upended heavy reels will often arrive damaged. Refuse or receive subject to inspection for hidden damage

Never allow forks to touch cable surface or reel wrap



Never drop reels

Do not lay drums flat on their sides, use proper wedges to prevent drums rolling

Warning: Failure to store or install in a proper manner, not in-line with the above may void factory warranty.

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