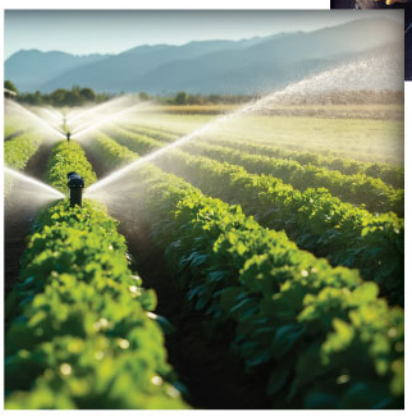
EXPORTING GLOBALLY

GOVT. RECOGNIZED TWO STAR EXPORT HOUSE

Jainson® CABLES
The only trusted one

CABLES & WIRES



Submersible Cables | Welding Cables | House Wires | Industrial Cables
Harmonized Cables | Battery Cables | Power Cords | Automotive Wires
Solar Cables | Winding Wires | LT Power & Control Cables

AN ISO 9001 : 2015
AN ISO 14001 : 2015
AN ISO 45001 : 2018

IS : 9857 CM/L 2893984 | IS : 17048 CM/L 7200279012 | IS : 694 CM/L 7159274 | IS : 7098 CM/L 3943978 | WRAS APPROVED PRODUCT | ARAI Progress through Research | CE | RoHS | LF LEAD FREE

www.jainsoncablesindia.com

INTRODUCTION

Jainson Cables India Pvt Ltd was founded with the pioneering vision of the founders of the company **Mr. H N Shah and Mr. N N Shah. Founded in 1978,** from its humble beginning in Ahmedabad (India), Jainson Cables today has built a strong foundation and a legacy of Quality and Trust over a period of more than **4 decades.**

Walking on the footsteps of the founders, the second generation leaders Mr. Shripal Shah & Mr. Anish Shah spearheaded the organisation towards making Jainson a Global brand by expanding its presence to more than **80 countries spanning 6 continents.**

Our state of the art manufacturing facility boasts of superior infrastructure. The **German Plant & Machinery** of Coperion and NIEHOFF coupled with backward integration of processes enables Jainson to manufacture High Quality Wires & Cables of International Standards of wide range from **0.5 SQ MM to 1000 SQ MM.**

The various varieties of inhouse developed High Quality Compounds of PVC and Rubber among others makes our cables **resistant to High Heat, Chemicals and Abrasion** and perform seamlessly in conditions where the Sustainability is challenged.

Vision

To provide sustainable solutions to our customers globally to stay connected through innovation.

Mission

To create an ecosystem of solutions for our customers through innovative quality products and laying strong foundations of business based on legacy, innovation and trust.

45 + YEARS

45+ Years

80+ Countries

Upto 1000 sq mm Cable Size

Zero Defect Products

THE ONLY TRUSTED ONE

At Jainson, we are consistently unlocking new dimensions and have specialized in developing cables of Customized Sizes and Designs curated as per the requirements of customers which has made Jainson a connoisseur of a wide spectrum of Quality Wires and Cables Including:

- Submersible Cables
- Welding Cables
- House Wires
- Industrial Cables
- Harmonized Cables
- Battery Cables
- Power Cords
- Automotive Wires
- Solar Cables
- Winding Wires
- LT Power & Control Cables

Our Wires and Cables undergo rigorous testing procedure in our well-resourced Laboratory to ensure Zero Defect products. The **quality, strength, & durability** of our products is seconded by various bodies like **BIS, ISO, CE, RoHS, WRAS, ARAI,** and many more.

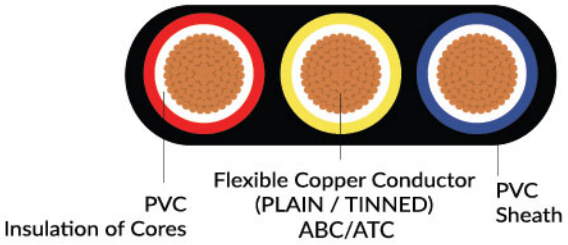
Legacy. Trust. Innovation. From the House of Jainson.

GLOBAL PRESENCE


Sweden
Russia
Denmark
Lithuania
Solvakia
Kyrgyzstan
Hungary
Romonia
Bulgaria
Greece
Turkey
Cyprus
Syria
Lebenon
Iraq
Jordan
Iran
Afghanistan
China
Japan
Libya
Egypt
Kuwait
Bahrain
Qatar
UAE
Saudi Arabia
Oman
Pakistan
Nepal
Taiwan
Hong Kong
Myanmar
Thailand
Vietnam
Philippines
Malaysia
Singapore
Indonesia
Sudan
Yemen
Nigeria
Ethiopia
Uganda
Kenya
Congo
Tanzania
Maldives
Zambia
Mauritius
Australia
Fiji
South Africa
New Zealand

SUBMERSIBLE PUMP
CABLES
PVC 3 CORE FLAT CABLES

(3 CORE)



Submersible Flat Cable

Features

- Conforming to IS 694:2010 & IS 8130.
- 99.97% purity.
- Excellent resistance to moisture, abrasion, grease, oil.
- 100% EC grade copper.
- Longer flex life.
- Excellent mechanical & electrical properties.
- Temperature range -15°C to +70°C.
- Voltage Range upto and including 1100V.

PVC 3 Core Flat Submersible Cable

Conductor		PVC Insulation		PVC Sheath			Maximum Conductor Resistance at 20°C	Current rating at 40°C
Cross Sectional Area	Copper Construction	Nominal Thickness	Nominal Core Diameter	Nominal Thickness	Approx Overall Dimensions			
Sq. mm.	Nos./mm	mm	mm	mm	Height (mm)	Width (mm)	Ω/km	Amps
0.50	16/0.200	0.60	2.20	0.90	4.30	8.90	39.000	4
0.75	24/0.200	0.60	2.45	0.90	4.50	9.50	26.000	7
1.00	32/0.200	0.60	2.70	0.90	4.70	10.20	19.500	12
1.50	30/0.250	0.60	2.80	0.90	4.90	10.50	13.300	14
2.50	50/0.250	0.70	3.50	1.00	5.70	12.60	7.980	18
4.00	56/0.300	0.80	4.00	1.00	6.60	14.80	4.950	26
6.00	84/0.300	0.80	5.10	1.10	7.40	17.70	3.300	31
10.00	140/0.300	1.00	6.30	1.40	9.30	22.30	1.910	42
16.00	224/0.300	1.00	7.50	1.40	10.80	26.30	1.210	57
25.00	350/0.300	1.20	10.10	2.00	14.70	35.50	0.780	72
35.00	490/0.300	1.20	11.30	2.00	16.80	39.50	0.554	90
50.00	703/0.300	1.40	13.50	2.20	18.00	45.50	0.386	115
70.00	988 /0.300	1.40	15.30	2.20	20.00	51.00	0.272	143
95.00	1349/0.300	1.60	18.00	2.40	23.50	60.00	0.206	165

Note:

- The number of wires is approximate and diameter is nominal. They shall be such as to satisfy the requirements of conductor resistance as per - IS 8130.
- Tolerance : Up to 4.00 Sq mm +/-0.5 mm. 6.0 Sq mm & 10 Sq mm +/-1.0 mm and above 10 Sq mm +/-1.2 mm.
- In view of continuous improvements in our design and process, specifications given here in are subject to change without notice.

*Any other Color on specific request can also be supplied

SUBMERSIBLE PUMP CABLES - VARIANTS

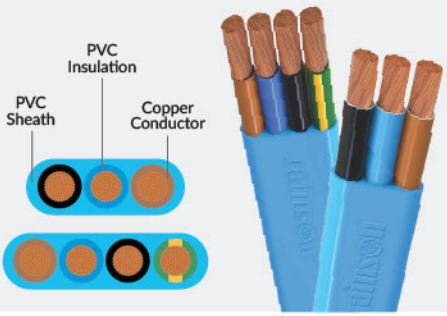
PVC 3 & 4 Core Flat Cables

Construction

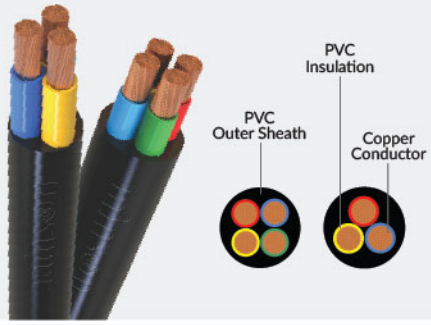
Conductor : ABC/ATC
Insulation : PVC
Sheath : PVC
Core Colours :
3 core : Red, Yellow, Blue OR Brown, Blue, Black
4 core : Red, Yellow, Blue, Green OR Brown, Blue, Black, Yellow/Green
Sheath Colour : Blue or Black
Size Range :
3 core : 0.5 to 240 Sq. mm
4 core : 0.5 to 185 Sq. mm

Cable Features

- Excellent resistant to moisture, abrasion, grease, oil.
- Excellent mechanical & electrical properties.
- Generally Conforming to : CENELEC HD 21, IEC 60227, BS 6500, DIN VDE 0281, IS 694.
- Temperature range -15°C to +70°C.



PVC 3 & 4 Core Round Cables



Construction

Conductor : ABC/ATC
Insulation : PVC
Sheath : PVC
Core Colours :
3 core : Red, Yellow, Blue OR Brown, Blue, Black
4 core : Red, Yellow, Blue, Green OR Brown, Blue, Black, Yellow/Green
Sheath Colour : Blue or Black
Size Range :
3 core : 0.5 to 400 Sq. mm
4 core : 0.5 to 240 Sq. mm

Cable Features

- Excellent resistant to moisture, abrasion, grease, oil.
- Excellent mechanical & electrical properties.
- Generally Conforming to : CENELEC HD 21, IEC 60227, BS 6500, DIN VDE 0281, IS 694.
- Temperature range -15°C to +70°C.

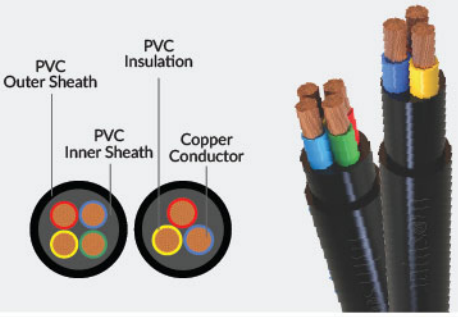
PVC 3 & 4 Core Double Sheathed Round Cables

Construction

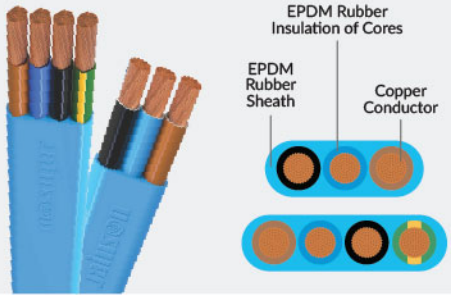
Conductor : ABC/ATC
Insulation : PVC
Sheath : PVC
Core Colours :
3 core : Red, Yellow, Blue OR Brown, Blue, Black
4 core : Red, Yellow, Blue, Green OR Brown, Blue, Black, Yellow/Green
Sheath Colour : Blue or Black
Size Range :
3 core : 0.5 to 400 Sq. mm
4 core : 0.5 to 240 Sq. mm

Cable Features

- Excellent resistant to moisture, abrasion, grease, oil.
- Excellent mechanical & electrical properties.
- Generally Conforming to : CENELEC HD 21, IEC 60227, BS 6500, DIN VDE 0281, IS 694.
- Temperature range -15°C to +70°C.



Rubber 3 And 4 Core Flat Cables EPDM



Construction

Conductor : ABC/ATC
Insulation : EPDM Rubber
Sheath : EPDM Rubber
Core Colours :
3 core : Red, Yellow, Blue OR Brown, Blue, Black
4 core : Red, Yellow, Blue, Green OR Brown, Blue, Black, Yellow/Green
Sheath Colour : Blue or Black
Size Range :
3 core : 0.5 to 240 Sq. mm
4 core : 0.5 to 185 Sq. mm

Cable Features

- Meets the requirement of CENELEC HD 22.1.S2, DIN VDE 0282 PART 810, IEC60245, CEI 20-19 & BS 6007, BS 6899.
- Designed for heavy duty use.
- Excellent resistant to oils, acids, chemicals, ozone & solvents.
- Excellent Weather Resistant.
- Excellent Electrical Properties.
- Temperature range -40°C to +90°C.

*Any other Color on specific request can also be supplied

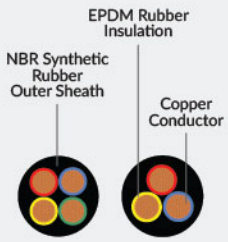
Rubber 3 & 4 Core Round Cables HO7RN-F

Construction

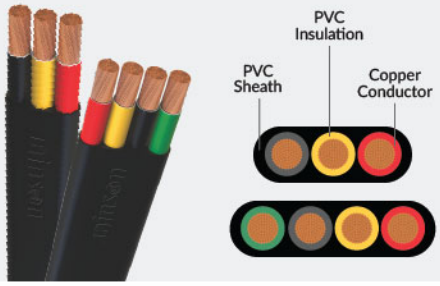
Conductor : ABC/ATC
Insulation : EPDM Rubber
Sheath : NBR Rubber
Core Colours :
3core : Brown, Blue, Black
4core : Brown, Blue, Black, Yellow-Green
Sheath Colour : Blue or Black
Size Range :
3 core : 0.5 to 400 Sq. mm
4 core : 0.5 to 240 Sq. mm

Cable Features

- Generally conforming to: UL 83, IEC 60245, BS 6500
- Excellent resistant to moisture, abrasion, grease and oil.
- Excellent resistance to oils, acids, chemicals and ozone.
- Temp Range: -30°C to +90°C.



PVC 3 & 4 Core Flat Cables- AWG



Construction

Conductor : ABC/ATC
Insulation : PVC
Sheath : PVC
Core Colours :
3 core : Red, Yellow
4 core : Red, Yellow
Sheath Colour : Black
Size Range :
3 core : 0.5 to 240 Sq. mm
4 core : 0.5 to 185 Sq. mm

Cable Features

- Excellent resistant to moisture, abrasion, grease, oil.
- Excellent mechanical & electrical properties.
- Generally Conforming to : CENELEC HD 21, IEC 60227, BS 6500, DIN VDE 0281, IS 694, UL-83.
- Temperature range -15°C to +70°C.

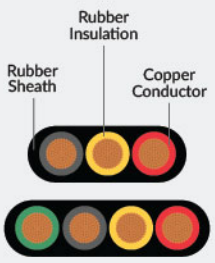
Rubber 3 & 4 Core Flat Cable - AWG EPDM

Construction

Conductor : ABC/ATC
Insulation : EPDM Rubber
Sheath : EPDM Rubber
Core Colours :
3core : Red, Yellow, Black
4core : Red, Yellow, Black, Green
Sheath Colour : Black
Size Range :
3 core : 0.5 to 240 Sq. mm
4 core : 0.5 to 185 Sq. mm

Cable Features

- Meets the requirement of CENELEC HD 22.1.S2, DIN VDE 0282 PART 810, IEC60245, UL-83, CEI 20-19 & BS 6007, BS 6899.
- Designed for heavy duty use.
- Excellent resistant to oils, acids, chemicals, ozone & solvents.
- Excellent Weather Resistant.
- Excellent Electrical Properties.
- Temperature range -40°C to +90°C.



Applications

- **Domestic water supply:** Borewell pumps in homes and small buildings
- **Agricultural irrigation:** Powering pumps in farms and fields
- **Fountains and water features:** For decorative installations
- **Industrial water systems:** Where single-phase motors are used
- **Mining operations:** For shallow dewatering systems
- **High-capacity irrigation systems:** Large agricultural setups
- **Municipal water supply:** Deep borewell pumps for cities and towns
- **Industrial pumping:** Heavy-duty motors in factories or treatment plants
- **Mining and construction:** Deep dewatering and slurry pumps
- **Water treatment plants:** For consistent and powerful motor operation

*Any other Color on specific request can also be supplied

HOFR WELDING
CABLES

Structure & Technical Data

Generally conforms to, based on CENELEC HD 22-6 31, VDE 0282, IEC 60245-6, BS 6599, IS 6380, IS 9857.

Conductor : High conductivity, bare annealed copper flexible conductor, EC copper class 5 and class 6 generally conforms to IEC 60228, DIN VDE 0281, IS 8130.

Insulation : Double Insulated Flexible Nitrile Rubber (NBR)
*Also available in single insulation on MOQ.

Colour Code : Orange & Black Jacket*

Cable Features

- High performance NBR double insulated.
- Better flame retardant properties.
- Excellent flexibility with longer flex life.
- High tensile strength.
- High resistance to cuts, tears & abrasion.
- Oil, chemicals & acid resistant.
- Non toxic & non allergenic.

NBR Rubber Double Insulated Extra Flexible Copper Welding Cable

Cross Sectional Area	Copper Construction	Nominal Inner Dia	Outer Dia	Max. Conductor Resistance at 20°C	Current Rating					Non Welding Application
					Welding Application					
					Duty Cycle					
					100%	85%	60%	30%	20%	
Sq. mm.	Nos./mm	mm	mm	Ω/km	amp	amp	amp	amp	amp	amp
10	322 / 0.20	6.3	9.9	1.9100	105	115	135	190	235	110
16	511 / 0.20	8.0	10.7	1.2100	135	145	175	245	302	138
25	798 / 0.20	9.5	12.1	0.7800	180	195	230	330	402	187
35	1121 / 0.20	11.0	14.2	0.5540	225	245	290	410	503	233
50	1596 / 0.20	12.3	16.3	0.3860	285	310	370	520	637	295
70	2220 / 0.20	14.4	18.7	0.2720	355	385	460	650	794	372
95	1349 / 0.30	16.6	20.8	0.2060	430	470	560	790	961	449
120	608 / 0.50	18.2	23.0	0.1610	500	540	650	910	1118	523
150	760 / 0.50	21.1	27.6	0.1290	580	620	740	1040	1297	608
185	943 / 0.50	23.8	30.8	0.1060	660	715	850	1200	1476	690
240	1225 / 0.50	26.8	34.0	0.0801	710	770	916	1296	1587	744
300	1498 / 0.50	30.3	37.5	0.0641	800	850	1035	1450	1790	840
400	2035 / 0.50	33.6	41.3	0.0486	925	1000	1195	1690	2070	970

- The number of wires is approximate and wire diameter is nominal; they shall be such as to satisfy the requirements of conductor resistance of IEC 60228 / DIN VDE 0295 / IS 8130 / BS 6360
- In view of continuous improvements in our design and process, specifications given here in are subject change without notice.

Rating factors for variation in ambient temperature

Ambient temperature °C	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°
Rating Factor	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.69	0.64	0.57

*Any other Color on specific request can also be supplied

HOFR WELDING CABLES - VARIANTS

NBR Insulated Extra Flexible Copper Welding Cable

Structure & Technical Data

Conductor : High conductivity, bare annealed copper flexible conductor, EC copper Class 5 and Class 6 generally conforms to IEC 60228, DIN VDE 0281, IS 8130.

Insulation : Nitrile Butadiene Rubber (NBR) Insulated

Colour Code : Orange & Black Jacket

Fixed installation : -30°C to +90°C

Nominal voltage : 600V

Test voltage : 2500V

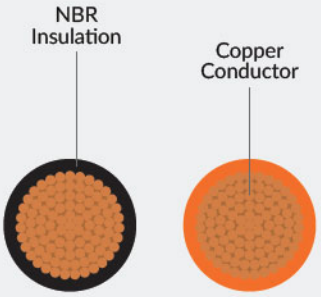
Mechnical Properties : Tensile strength = 10 N/mm². Min. Elongation = 300 Min.

Min. bending radius : 6 x cable diameter

Flame propagation : Flame retardant test as per IEC 60332-1

Cable Features

- Ultra high performance flexible welding lead, double insulated.
- Flame retardant.
- Excellent flexibility to last longer.
- Based on CENELEC HD 22-6 31, VDE 0282, IEC 245-6, IS 9857, BS 638-4.
- Outstanding toughness & durability.
- High resistance to cuts, tears & abrasion.
- Resistance to oil, solvents and chemicals.
- Excellent ozone and weather resistant.



H01N2-D Extra Flexible Copper Welding Cable

Structure & Technical Data

Conductor : High conductivity, bare annealed copper flexible conductor, EC copper class 5 and class 6 generally conforms to IEC 60228, DIN VDE 0281

Insulation : Nitrile Butadiene Rubber (NBR) Insulated

Colour Code : Orange & Black Jacket

Fixed installation : -30°C to +90°C

Nominal voltage : 600V

Test voltage : 2500V

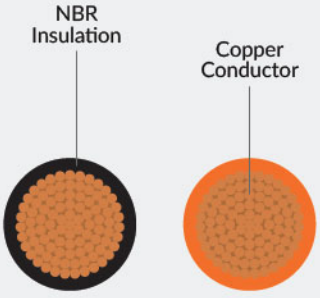
Mechnical Properties : Tensile strength = 10 N/mm². Min. Elongation = 300 Min.

Min. bending radius : 6 x cable diameter

Flame propagation : Flame retardant test as per IEC 60332-1

Cable Features

- Ultra high performance flexible welding lead, double insulated
- Flame retardant.
- Excellent flexibility to last longer.
- Based on CENELEC HD 22-6 31, VDE 0282, IEC 60245-6, IS 9857, BS 638-4.
- Outstanding toughness & durability.
- High resistance to cuts, tears & abrasion.
- Resistance to oil, solvents and chemicals.
- Excellent ozone and weather resistant.



*Any other Color on specific request can also be supplied

NBR Rubber Double Insulated Extra Flexible Copper Welding Cable (AWG SIZE)

Structure & Technical Data

Conductor : Welding Cable has a rope lay Class K stranded soft drawn bare copper conductor per ASTM B-172.

Insulation : NBR Rubber

Outer Sheath : Nitrile Butadiene Rubber (NBR) Double Insulated

Fixed installation : -30°C to +90°C

Nominal voltage : 600V

Test voltage : 3000V

Mechnical Properties : Tensile strength = 10 N/mm2 Min. Elongation = 300 Min.

Min. bending radius : 4 x cable diameter

Flame propagation : Flame retardant test as per IEC 60332-1

Cable Features

- Ultra high performance flexible welding lead, double insulated.
- Excellent flexibility to last longer.
- RoHS Compliant.
- Outstanding toughness & durability.
- High resistance to cuts, tears & abrasion.
- Resistance to oil, solvents and chemicals.
- Excellent ozone and weather resistant.

NBR Insulated Extra Flexible Copper Welding Cable (AWG SIZE)

Structure & Technical Data

Conductor : Welding Cable has a rope lay Class K stranded soft drawn bare copper conductor per ASTM B-172.

Separator: Polyester tape (25 to 30) Micron

Outer Sheath : NBR Rubber Double Sheath, black and oil resistant

Fixed installation : -30°C to +90°C

Nominal voltage : 600V

Test voltage : 3000V

Mechnical Properties : Tensile strength = 10 N/mm². Min. Elongation = 300 Min.

Min. bending radius : 4 x cable diameter

Flame propagation : Flame retardant test as per IEC 60332-1

Cable Features

- Ultra high performance flexible welding lead, double insulated.
- Excellent flexibility to last longer in flex applications.
- RoHS Compliant.
- Outstanding toughness & durability.
- High resistance to cuts, tears & abrasions.
- Resistance to oil, solvents and chemicals.
- Excellent ozone and weather resistant.

Applications

- Arc Welding Machines
- Industrial Fabrication
- Automobile & Heavy Vehicle Repairs
- Construction Sites
- Mining Operations

*Any other Color on specific request can also be supplied

HOUSE & BUILDING
WIRES

FRLF PVC Insulated Flexible Cables (Upto 1100V)

Cross Sectional Area	Copper Construction	Nominal Thickness	Max. Overall Diameter	Max. Conductor Resistance at 20°C	Current Rating	
					Casing	Concealed
Sq. mm.	Nos./mm	mm	mm	Ω/km	Amps	Amps
0.75	24/0.200	0.60	2.80	26.00	10	9
1.00	32/0.200	0.60	3.00	19.50	14	13
1.50	30/0.250	0.60	3.40	13.30	18	16
2.50	50/0.250	0.70	4.10	7.98	24	20
4.00	56/0.300	0.80	4.80	4.95	32	26
6.00	84/0.300	0.80	5.30	3.30	42	35

Available Colours : Red, Black, Yellow, Blue, Green, White, Grey*

Cable Structure

Conductor : ABC
Insulation : PVC Type A FRLF as per IS 5831

Cable Features

- Temperature Range : -15°C to 70°C
- Flame Retardant

Additional FRLF Properties

Test	Test Method	Value
Limited Oxygen Index	IS 10810 P-58	> 29%
Limited Temperature Index	IS 10810 P-64	> 250°C

FR-LSH

Cable Structure

Conductor : ABC
Insulation : PVC Type A FR-LSH as per IS 5831

Cable Features

- Temperature Range: -15°C to 70°C
- Flame Retardant and low smoke
- Produces less toxic and corrosive gases
- Durable, moisture and abrasion resistant.

Additional FR-LSH Properties

Test	Test Method	Value
Limited Oxygen Index	IS 10810 P-58	> 29%
Limited Temperature Index	IS 10810 P-64	> 250°C
Smoke Density Rating	IS 13360 P-6/Sec-9	< 60%
Halogen Acid gas Evolution	IS 10810 P-59	< 20%

HRFR

Cable Structure

Conductor : ABC
Insulation : PVC Type C as per IS 5831

Cable Features

- Temperature Range: -15°C to 85°C
- Flame Retardant and low smoke
- Produces less toxic and corrosive gases
- Durable, moisture and abrasion resistant.

HFFR

Cable Structure - (IS 17048)

Conductor : ABC
Insulation : Thermoplastic HFFR as per IS 17048

Cable Features

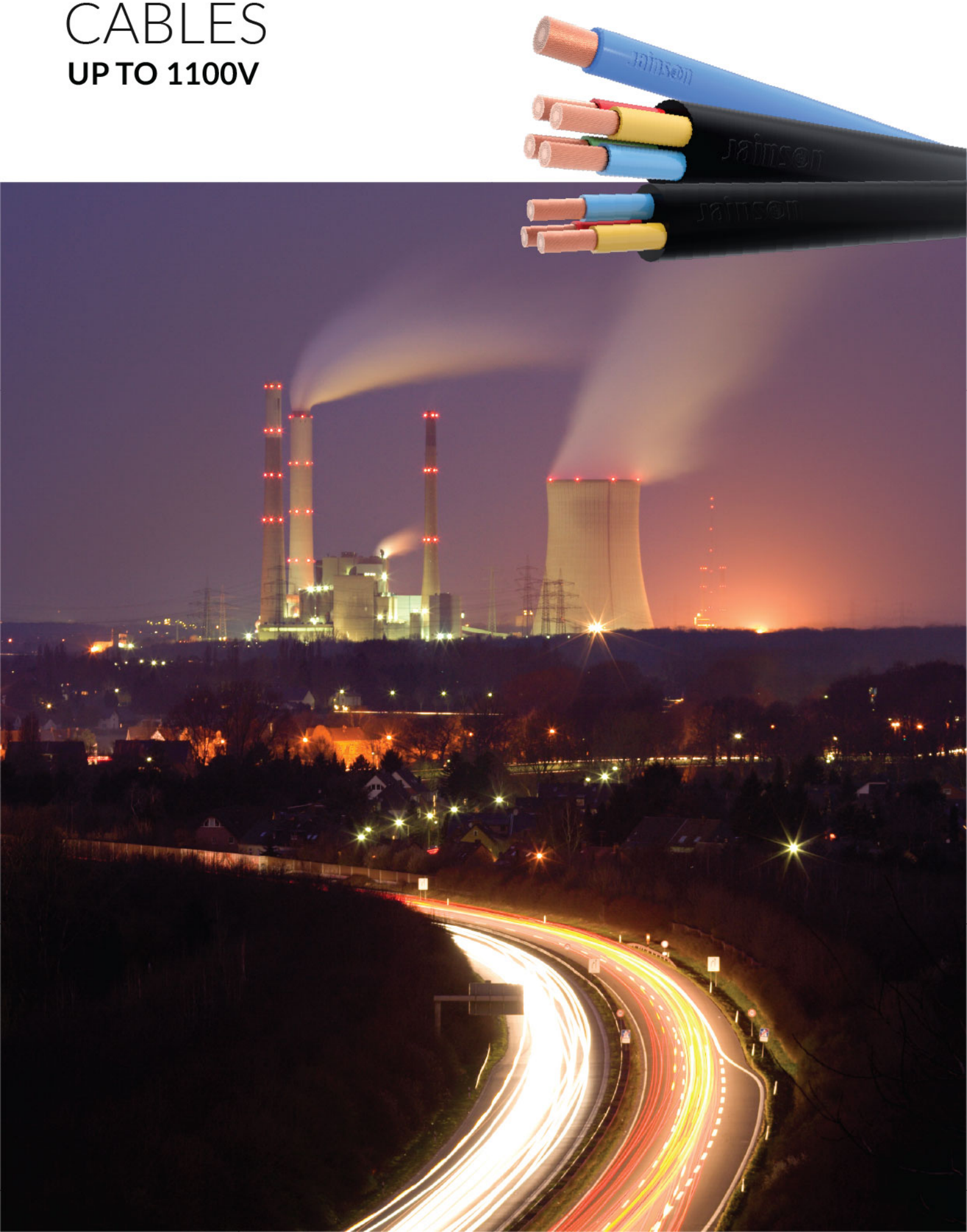
- Temperature Range: -15°C to 70°C
- Flame Retardant and low smoke
- Smoke is negligible, transparent, non-toxic
- Self-extinguishing & flame retardant
- The cable is also ozone resistant

Additional HRFR Properties

Test	Test Method	Value
pH	IS 17048	≥ 4.3
Conductivity	IS 17048	≤ 10 µs/mm
Chlorine and bromine expressed as content of HCL	IS 10810 P-59	≤ 0.5 %
Presence of fluorine	IS 17048	≤ 0.1 %

*Any other Color on specific request can also be supplied

PVC INDUSTRIAL
CABLES
UP TO 1100V



Structure & Technical Data

Conductor : ABC/ATC

Insulation : PVC

Sheath : PVC

Core Colors :

3core : Red, Yellow, Blue OR Brown, Blue, Black*

4core : Red, Yellow, Blue, Green OR Brown, Blue, Black, Yellow/Green*

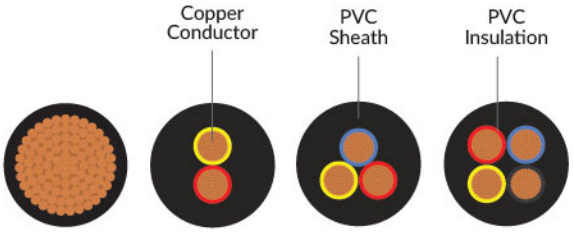
Sheath Color : Black/Grey*

Cable Features

- Conforming to IS 694:2010, IEC 60502
- Higher current carrying capacity.
- Fine copper wires.
- Excellent resistant to moisture, abrasion, grease, oil.
- Longer Flex Life.
- Excellent mechanical & electrical properties.
- Tested by SGS, EIL, RITES, NPC, INTERTEK.
- Operating Temp -15°C to +70°C

Cable Application

Industrial cables find wide applications in battery connections, motor and transformer leads, control and instrumentation, power supply, signal transmission, conveyor systems, robotics, underground installations, as well as lighting and HVAC systems.



PVC Single & Multi-Core Round Flexible Industrial Cable up to 1100V

Cross section area	Copper Construction	Nominal Insulation Thickness	Nominal Sheath Thickness in mm			Max. Overall Diameter				Max. Conductor Resistance at 20°C	Current Rating
Sq. mm.	mm	mm	2 core	3 core	4 core	1 core	2 core	3 core	4 core	Ω/km	Amps
0.50	16/0.20	0.6	0.9	0.9	0.9	2.6	6.9	7.30	8.00	39.0000	6
0.75	24/0.20	0.6	0.9	0.9	0.9	2.8	7.3	7.70	8.40	26.0000	9
1.00	32/0.20	0.6	0.9	0.9	0.9	3.0	7.6	8.10	8.80	19.5000	14
1.50	30/0.25	0.6	0.9	0.9	1.0	3.4	8.9	9.40	10.40	13.3000	18
2.50	50/0.25	0.7	1.0	1.0	1.0	4.1	10.3	10.80	12.00	7.9800	24
4.00	56/0.30	0.8	1.0	1.0	1.0	4.8	11.6	12.40	13.60	4.9500	32
6.00	84/0.30	0.8	1.1	1.2	1.2	5.3	13.0	13.80	15.47	3.3000	42
10.00	140/0.30	1.0	1.3	1.4	1.4	7.0	16.5	17.69	19.50	1.9100	55
16.00	224/0.30	1.0	1.4	1.4	1.4	8.1	19.4	20.60	23.00	1.2100	75
25.00	350/0.30	1.2	1.4	1.5	1.6	10.2	23.8	29.30	28.50	0.7800	100
35.00	490/0.30	1.4	1.6	1.6	1.7	11.7	27.2	34.60	32.70	0.5540	125
50.00	703/0.30	1.4	2.0	2.0	2.0	13.9	32.0	39.60	38.60	0.3860	165
70.00	988/0.30	1.4	-	-	-	16.0	-	-	-	0.2720	240
95.00	1349/0.30	1.6	-	-	-	18.2	-	-	-	0.2060	300
120.00	608/0.50	1.6	-	-	-	20.2	-	-	-	0.1610	325
185.00	943/0.50	1.8	-	-	-	22.5	-	-	-	0.1060	400
240.00	1223/0.50	2.0	-	-	-	24.9	-	-	-	0.0801	475
300.00	1528/0.50	2.2	-	-	-	28.4	-	-	-	0.0641	550
400.00	2035/0.50	2.4	-	-	-	31.0	-	-	-	0.0486	670
500.00	2553/0.50	2.6	-	-	-	41.0	-	-	-	0.0384	750

- All are class 5 conductor
- HRFR/FRLS-H/ZHFR insulation is also available as per customer requirements

*Any other Color on specific request can also be supplied

HARMONIZED STANDARD
CABLES
HO7RN-F

Structure & Technical Data

Generally Conforms to, DIN VDE 0282 PART 810, IEC 60245, BS7655,BS7919/ HD22.1, HD22.4

Conductor : Flexible Class 5 copper conductor according to DIN VDE 0295, IEC 60228

Insulation : EPDM rubber, core identification by colours

Sheathing : Nitrile Butadiene Rubber (NBR)

Operating Temp : -25°c to +90°C

Nominal Voltage : 450/750 V

Test Voltage : 2500 V

Min. bending radius : 8 x cable diameter

Flame propagation : Flame retardant test as per IEC 60332-1

Cable Features

- Designed for heavy duty use.
- Cur, tear & abrasion resistant.
- Excellent resistant to oils, chemicals, ozone & solvents.
- Excellent Weather Resistance.
- Excellent Electrical Properties.

Applications

- Domestic Electrical Installations
- Industrial Machinery & Control Systems
- Portable Tools & Equipment
- Construction Sites & Temporary Installations
- Export-Oriented Manufacturing
- Control & Signal Transmission

One Core

Cross Section Area	Copper Construction	Insulation Thickness	Core Diameter	Sheath Thickness	Cable Diameter	Max. C.R
Sq. mm.	Nos/dia.	mm	mm	mm	mm	Ω/km
1 C X 1.5	30/0.250	0.8	3.25	1.4	6.2	13.3000
1 C X 2.5	50/0.250	0.9	3.80	1.4	6.7	7.9800
1 C X 4	56/0.300	1.0	4.50	1.5	7.5	4.9500
1 C X 6	84/0.300	1.0	5.25	1.6	8.6	3.3000
1 C X 10	140/0.300	1.2	7.00	1.8	10.8	1.9100
1 C X 16	224/0.300	1.2	8.15	1.9	12.2	1.2100
1 C X 25	350/0.300	1.4	9.95	2.0	14.2	0.7800
1 C X 35	490/0.300	1.4	11.10	2.2	15.7	0.5540
1 C X 50	703/0.300	1.6	13.30	2.4	18.3	0.3860
1 C X 70	988/0.300	1.6	15.15	2.6	20.6	0.2720
1 C X 95	1349/0.300	1.8	17.55	2.8	23.4	0.2060
1 C X 120	608/0.500	1.8	19.45	3.0	25.7	0.1610
1 C X 150	760/0.500	2.0	21.30	3.2	27.9	0.1290
1 C X 185	943/0.500	2.2	23.90	3.4	30.8	0.1060
1 C X 240	1225/0.500	2.4	27.10	3.5	34.1	0.0801
1 C X 300	1498/0.500	2.6	29.60	3.6	36.8	0.0641
1 C X 400	2035/0.500	2.8	33.80	3.8	41.6	0.0486

Two Core

Cross Section Area	Copper Construction	Insulation Thickness	Core Diameter	Sheath Thickness	Cable Diameter	Max. C.R
Sq. mm.	Nos/dia.	mm	mm	mm	mm	Ω/km
2 C X 1	32/0.200	0.8	3.00	1.3	8.7	19.50
2 C X 1.5	30/0.250	0.8	3.25	1.5	9.6	13.30
2 C X 2.5	56/0.250	0.9	3.80	1.7	11.1	7.98
2 C X 4	56/0.300	1.0	4.50	1.8	12.9	4.95
2 C X 6	84/0.300	1.0	5.25	2.0	14.7	3.30
2 C X 10	140/0.300	1.2	6.50	3.1	19.4	1.91
2 C X 16	224/0.300	1.2	8.00	3.3	22.7	1.21
2 C X 25	350/0.300	1.4	10.10	3.6	27.5	0.78

*Any other Color on specific request can also be supplied

Three Core

Cross Section Area	Copper Construction	Insulation Thickness	Core Diameter	Sheath Thickness	Cable Diameter	Max. C.R
Sq. mm.	Nos/dia.	mm	mm	mm	mm	Ω/km
3 C X 1	32/0.200	0.8	3.00	1.4	9.45	19.500
3 C X 1.5	30/0.250	0.8	3.25	1.6	10.20	13.300
3 C X 2.5	50/0.250	0.9	3.80	1.8	11.90	7.980
3 C X 4	56/0.300	1.0	4.50	1.9	13.50	4.950
3 C X 6	84/0.300	1.0	5.25	2.1	15.60	3.300
3 C X 10	140/0.300	1.2	6.50	3.3	20.60	1.910
3 C X 16	224/0.300	1.2	8.00	3.5	24.20	1.210
3 C X 25	350/0.300	1.4	10.10	3.8	29.10	0.780
3 C X 35	490/0.300	1.4	11.30	4.1	32.10	0.554
3 C X 50	703/0.300	1.6	13.30	4.5	38.10	0.386
3 C X 70	988/0.300	1.6	15.30	4.8	42.30	0.272
3 C X 95	1349/0.300	1.8	18.00	5.3	49.10	0.206
3 C X 120	608/0.500	2.0	19.80	5.9	54.60	0.161
3 C X 150	760/0.500	2.2	22.00	6.0	59.50	0.129
3 C X 185	943/0.500	2.4	23.70	6.5	64.30	0.106

Four Core

Cross Section Area	Copper Construction	Insulation Thickness	Core Diameter	Sheath Thickness	Cable diameter	Max. C.R
Sq. mm.	Nos/dia.	mm	mm	mm	mm	Ω/km
4 C X 1	32/0.200	0.8	3.00	1.5	10.7	19.500
4 C X 1.5	30/0.250	0.8	3.25	1.7	11.2	13.300
4 C X 2.5	50/0.250	0.9	3.80	1.9	13.0	7.980
4 C X 4	56/0.300	1.0	4.50	2.0	14.9	4.950
4 C X 6	84/0.300	1.0	5.25	2.3	17.5	3.300
4 C X 10	140/0.300	1.2	6.50	3.4	22.6	1.910
4 C X 16	224/0.300	1.2	8.00	3.6	27.1	1.210
4 C X 25	350/0.300	1.4	10.10	4.1	32.7	0.780
4 C X 35	490/0.300	1.4	11.30	4.4	36.2	0.554
4 C X 50	703/0.300	1.6	13.30	4.8	42.3	0.386
4 C X 70	988/0.300	1.6	15.30	5.2	48.2	0.272
4 C X 95	1349/0.300	1.8	18.00	5.9	55.6	0.206
4 C X 120	608/0.500	2.0	19.80	6.0	61.2	0.161
4 C X 150	760/0.500	2.2	22.00	6.5	66.0	0.129
4C X 185	943/0.500	2.4	23.70	6.9	71.5	0.106

Five Core

Cross Section Area	Copper Construction	Insulation Thickness	Core Diameter	Sheath Thickness	Cable diameter	Max. C.R
Sq. mm.	Nos/dia.	mm	mm	mm	mm	Ω/km
5 C X 1	32/0.200	0.8	3.00	1.6	11.5	19.500
5 C X 1.5	30/0.250	0.8	3.25	1.8	12.6	13.300
5 C X 2.5	50/0.250	0.9	3.80	2.0	14.5	7.980
5 C X 4	56/0.300	1.0	4.50	2.2	16.8	4.950
5 C X 6	84/0.300	1.0	5.25	2.5	19.4	3.300
5 C X 10	140/0.300	1.2	6.50	3.6	25.1	1.910
5 C X 16	224/0.300	1.2	8.00	3.9	29.7	1.210
5 C X 25	350/0.300	1.4	10.10	4.4	36.4	0.780
5 C X 35	490/0.300	1.4	11.30	4.6	40.0	0.554

HARMONIZED STANDARD CABLES - VARIANTS

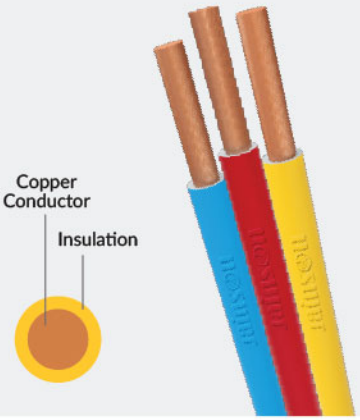
HO5V-U, HO7V-U

Structure & Technical Data

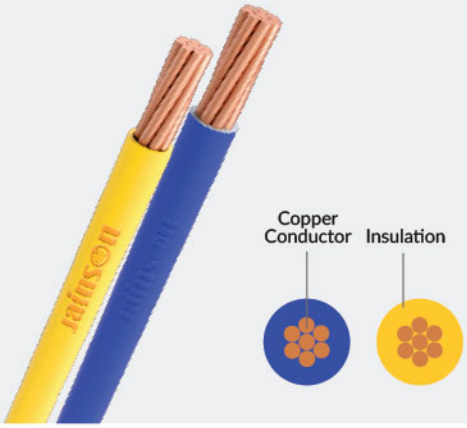
Conductor : Solid copper conductor, Class 1 DIN VDE 0281, IEC 60228
Insulation : PVC insulation compound TI-1
Core Colours : Blue, Black, Brown, Grey, Orange, White, Green, Yellow or other colours
Flame Propagation : Flame Retardant
Operating Temp : -15°C to +70°C
Nominal Voltage : HO5V-U : 300/500 V
HO7V-U : 450/750 V
Test Voltage : HO5V-U : 2000V | HO7V-U : 2500V
Insulation resistance : Min. 10 MΩ x km
Min. bending radius : 4 x Cable Diameter

Cable Features

- Good Application of Insulation
- High Current Carrying Capacity
- Excellent Resistant To Moisture, Abrasion, Grease, Oil
- Excellent Mechanical & Electrical Properties
- Harmonized Acc. To European Standards
- Steam and Boiling Water Resistant
- Tested by Sgs, Eil, Rites, Npc, Intertek



HO5V-R, HO7V-R



Structure & Technical Data

Conductor : Fine Stranded Copper (Class 2 - Flexible Plain Copper) to VDE 0295, IEC 60228
Insulation : PVC insulation compound TI-1
Core Colours : Blue, Black, Brown, Grey, Orange, White, Green, Yellow or other colours
Flame Propagation : Flame Retardant
Operating Temp : -15°C to +70°C
Nominal Voltage : HO5V-R : 300/500 V
HO7V-R : 450/750 V
Test Voltage : HO5V-R : 2000 V
HO7V-R : 2500 V
Insulation resistance : Min. 10 MΩ x km
Min. bending radius : 4 x Cable Diameter

Cable Features

- High Current Carrying Capacity
- Excellent Resistant To Moisture, Abrasion, Grease, Oil
- Longer Flex Life
- Excellent mechanical & electrical properties
- Harmonized acc. to European standards
- Steam and boiling water resistant
- Tested by SGS, EIL, RITES, NPC, INTE

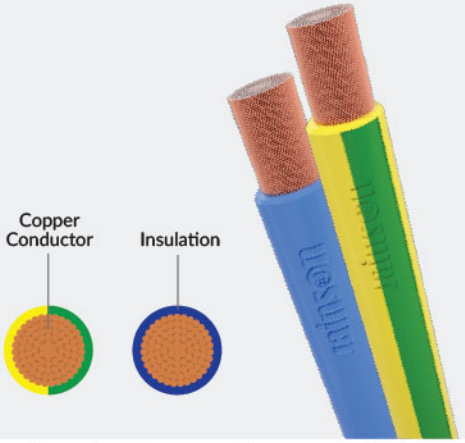
HO5V-K, HO7V-K

Structure & Technical Data

Conductor : Fine Stranded Copper (Class 5 - Flexible Plain Copper) to VDE 0295, IEC 60228
Insulation : PVC insulation compound TI-3
Core Colours : Blue, Black, Brown, Grey, Orange, White, Green, Yellow or other colours
Flame Propagation : Flame Retardant
Operating Temp : -15°C to +70°C
Nominal Voltage : HO5V-K : 300/500 V
HO7V-K : 450/750 V
Test Voltage : HO5V-K : 2500V | HO7V-K : 2500V
Insulation resistance : Min. 20 MΩ x km
Min. bending radius : 4 x Cable Diameter

Cable Features

- High current carrying capacity
- Excellent resistant to moisture, abrasion, grease, oil
- Fine copper wires
- Longer Flex Life
- Excellent mechanical & electrical properties
- Harmonized acc. to European standards
- Steam and boiling water resistant
- Tested by SGS, EIL, RITES, NPC, INTERTEK



*Any other Color on specific request can also be supplied

HO5Z-K, HO7Z-K

Structure & Technical Data

Conductor : Fine Stranded Copper (Class 5 - Flexible Plain Copper) to VDE 0295, IEC 60228

Insulation : Cross-linked polymer : Polymer compound, low smoke halogen free EI5 LSZH

Core Colours : Blue, Black, Brown, Grey, Orange, White, Green, Yellow or other colours

Flame Propagation : Zero halogen, Flame retardant

Operating Temp : -20°C to +90°C

Nominal Voltage : HO5Z-K : 300/500 V
HO7Z-K : 450/750 V

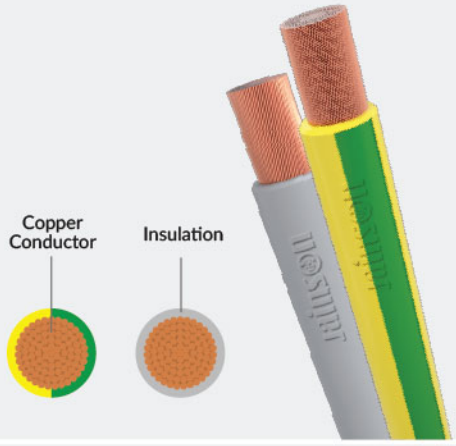
Test Voltage : HO5Z-K : 2500 V
HO7Z-K : 2500 V

Insulation resistance : Min. 10 MΩ x km

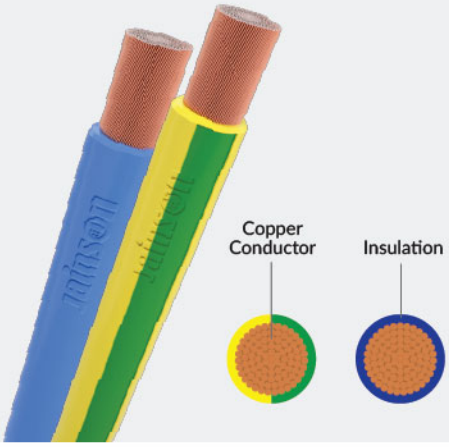
Min. bending radius : 4 x Cable Diameter

Cable Features

- Special heat resistant insulation
- High Current Carrying Capacity
- Less heat energy radiation
- High Flexibility
- Excellent resistant to moisture, abrasion, grease, oil
- Excellent mechanical & electrical properties
- Harmonized acc. to European standards
- Insulation is highly thermal stable
- Tested by SGS, EIL, RITES, NPC, INTERTEK



HO5G-K, HO7G-K



Structure & Technical Data

Conductor : Fine Stranded Flexible Copper to VDE 0295, IEC 60228

Insulation : Rubber compound EI3, Halogen free, DIN VDE -282

Core Colours : Blue, Black, Brown, Grey, Orange, White, Green, Yellow or other colours

Flame Propagation : Flame Retardant

Operating Temp : -40°c to +110°C

Nominal Voltage : HO5G-K : 300/500 V
HO7G-K : 450/750 V

Test Voltage : HO5G-K : 2000 V
HO7G-K : 2500 V

Insulation resistance : Min. 10 MΩ x km

Min. bending radius : 5 x Cable Diameter

Cable Features

- Special heat resistant rubber insulation
- High Current Carrying Capacity
- High elasticity
- Excellent resistant to moisture, abrasion, grease, oil
- Longer flex life
- Excellent mechanical & electrical properties
- Harmonized acc. to European standards
- Tested by SGS, EIL, RITES, NPC, INTERTEK

H05VV-F, H05V2V2-F

Structure & Technical Data

Conductor : Fine Stranded Copper (Class 5 - Flexible Plain Copper) to VDE 0295 IEC 60228

Insulation : HO5VVF : PVC | HO5V2V2F : Heat Resistant PVC

Core Colours : White, Black, Blue or as per party order

Operating Temp : H05VV-F -20°c to +80°C
H05V2V2-F -20°c to +90°C

Nominal Voltage : H05VV-F : 300/500 V
H05V2V2-F : 450/750 V

Test Voltage : H05VV-F : 2.5KV
H05V2V2-F : 2.5KV

Insulation resistance : Min. 20 MΩ x km

Min. bending radius : 7 x Cable Diameter

Cable Features

- Special heat resistant rubber insulation
- High Current Carrying Capacity
- Less heat energy radiation
- Longer flex life
- High compatibility of cores
- Excellent resistant to moisture, abrasion, grease, oil
- Excellent mechanical & electrical properties
- Insulation is highly thermal stable
- Harmonized Acc. To European Standards
- Tested by SGS, EIL, RITES, NPC, INTERTEK

*Any other Color on specific request can also be supplied

HO5V2-U, HO7V2-U

Structure & Technical Data

Conductor : Solid copper conductor, Class 1 DIN VDE 0281, IEC 60228

Insulation : PVC insulation compound TI-3

Core Colours : Blue, Black, Brown, Grey, Orange, White, Green, Yellow or other colours

Flame Propagation : Flame Retardant

Operating Temp : -20°C to +90°C

Nominal Voltage : HO5V2-U : 300/500 V

HO7V2-U : 450/750 V

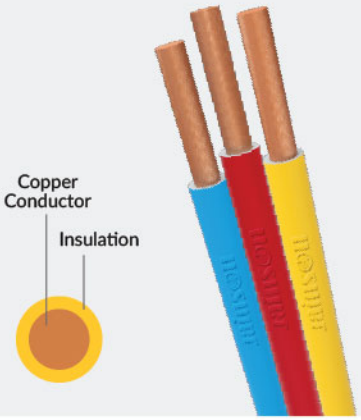
Test Voltage : HO5V2-U : 2000V | HO7V2-U : 2500V

Insulation resistance : Min. 10 MΩ x km

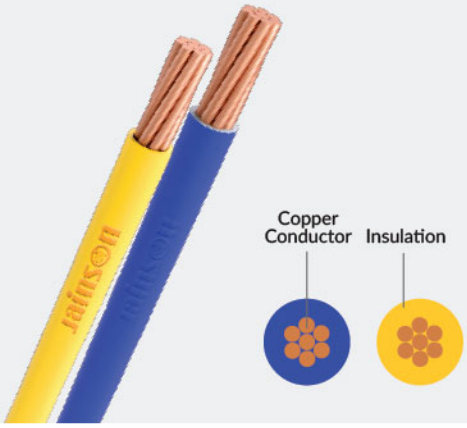
Min. bending radius : 4 x Cable Diameter

Cable Features

- Special heat resistant insulation
- High Current Carrying Capacity
- Less heat energy radiation
- Good application of insulation
- Excellent resistant to moisture, abrasion, grease, oil
- Excellent mechanical & electrical properties
- Harmonized acc. to European standards
- Insulation is highly thermal stable
- Tested by SGS, EIL, RITES, NPC, INTERTEK



HO5V2-R, HO7V2-R



Structure & Technical Data

Conductor : Multiple-wire, round copper conductor Class 2, DIN VDE 0281, IEC 60228

Insulation : Heat - resistant PVC

Core Colours : Blue, Black, Brown, Grey, Orange, White, Green, Yellow or other colours

Flame Propagation : Flame Retardant

Operating Temp : -20°C to +90°C

Nominal Voltage : HO5V2-R : 300/500
VHO7V2-R : 450/750 V

Test Voltage : HO5V2-R : 300/500 V

HO7V2-R : 450/750 V

Insulation resistance : 20 MΩ x km

Min. bending radius : 4 x Cable Diameter

Cable Features

- Special heat resistant insulation
- High Current Carrying Capacity
- Less heat energy radiation
- Long flex life
- Excellent resistant to moisture, abrasion, grease, oil
- Excellent mechanical & electrical properties
- Harmonized acc. to European standards
- Insulation is highly thermal stable
- Tested by SGS, EIL, RITES, NPC, INTERTEK

HO5V2-K, HO7V2-K

Structure & Technical Data

Conductor : Fine Stranded Copper (Class 5 - Flexible Plain Copper) to VDE 0295, IEC 60228

Insulation : Heat - resistant PVC core insulation

Core Colours : Blue, Black, Brown, Grey, Orange, White, Green, Yellow or other colours

Flame Propagation : Flame Retardant

Operating Temp : -20°C to +90°C

Nominal Voltage : HO5V2-K : 300/500 V
HO7V2-K : 450/750 V

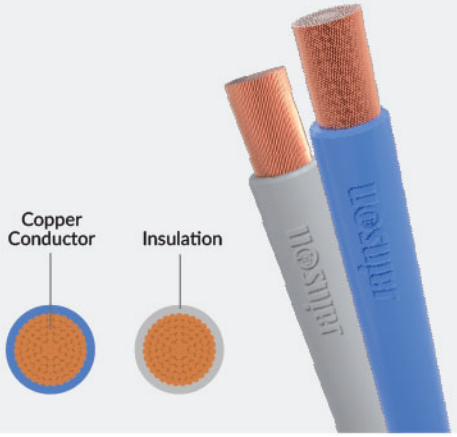
Test Voltage : HO5V2-K : 300/500 V
HO7V2-K : 450/750 V

Insulation resistance : 20 MΩ x km

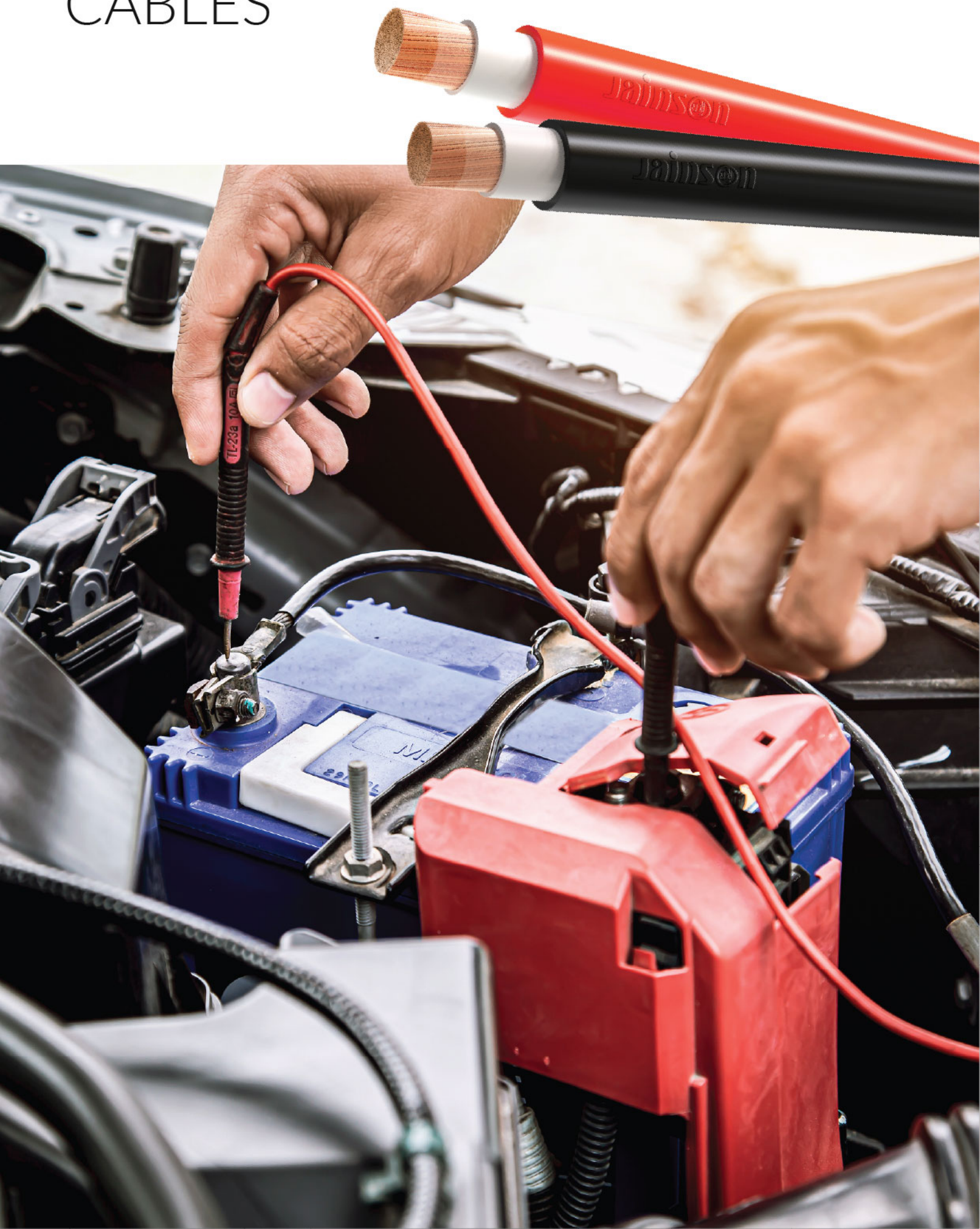
Min. bending radius : 4 x Cable Diameter

Cable Features

- Special heat resistant insulation
- High Current Carrying Capacity
- Less heat energy radiation
- High flexibility
- Excellent resistant to moisture, abrasion, grease, oil
- Excellent mechanical & electrical properties
- Harmonized acc. to European standards
- Insulation is highly thermal stable
- Tested by SGS, EIL, RITES, NPC, INTERTEK



BATTERY
CABLES



Structure & Technical Data

Generally conforms to Based on 22-6 31, VDE 0282, IEC 60245, BS 6899, IS 6830/84

Conductor : High conductivity, ABC/ATC, EC copper Class 5 and Class 6 generally conforms to IEC 60228, DIN VDE 0281.

Insulation : Double Insulated Nitrile Butadiene Rubber (NBR).

Colour Code : Red & Black Jacket*

Fixed installation : 40°C to + 90°C

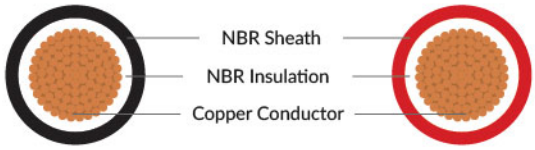
Nominal voltage : 600V

Test voltage : 2500V

Mechnical Properties : Tensile strength = 10 N/mm². Min. Elongation = 300 Min.

Min. bending radius : 6 x cable diameter

Flame propagation : Flame retardant test as per IEC 60332-1



Cable Features

- Ultra high performance flexible battery lead, double insulated.
- Flame retardant.
- Excellent flexibility to last longer in flex applications Based on CENELEC HD 22-6 31, VDE 0282, IEC 245-6, IS 473, BS 638-4.
- Outstanding toughness & durability.
- High resistance to cuts, tears & abrasion.
- Resistance to oil, solvents and chemicals.
- Excellent ozone and weather resistant.

Cable Application

Industrial cables are widely used across automotive and transportation systems for starting, charging, and power distribution; in marine applications to power navigation and onboard electronics with resistance to harsh conditions; in industrial equipment like forklifts, cranes, and generators for heavy duty power needs; in solar and renewable energy setups for connecting batteries, inverters, and controllers; in backup power and UPS systems for reliable supply during outages; and in EVs and battery banks for safe, efficient high-voltage power transfer.

Information Techniques

Cross Sectional Area	Copper Construction	Inner Diameter	Outer Diameter Appx.	Max. Conductor Resistance at 20˚C
Sq. mm.	Nos.X Dia. mm	mm	mm	Ω/Km
16	511 X 0.20	8.0	10.7	1.210
25	798 X 0.20	9.5	12.1	0.780
35	1121 X 0.20	11.0	14.2	0.554
50	1596 X 0.20	12.3	16.3	0.386
70	2220 X 0.20	14.4	18.7	0.272
95	1349 X 0.30	16.6	20.8	0.206

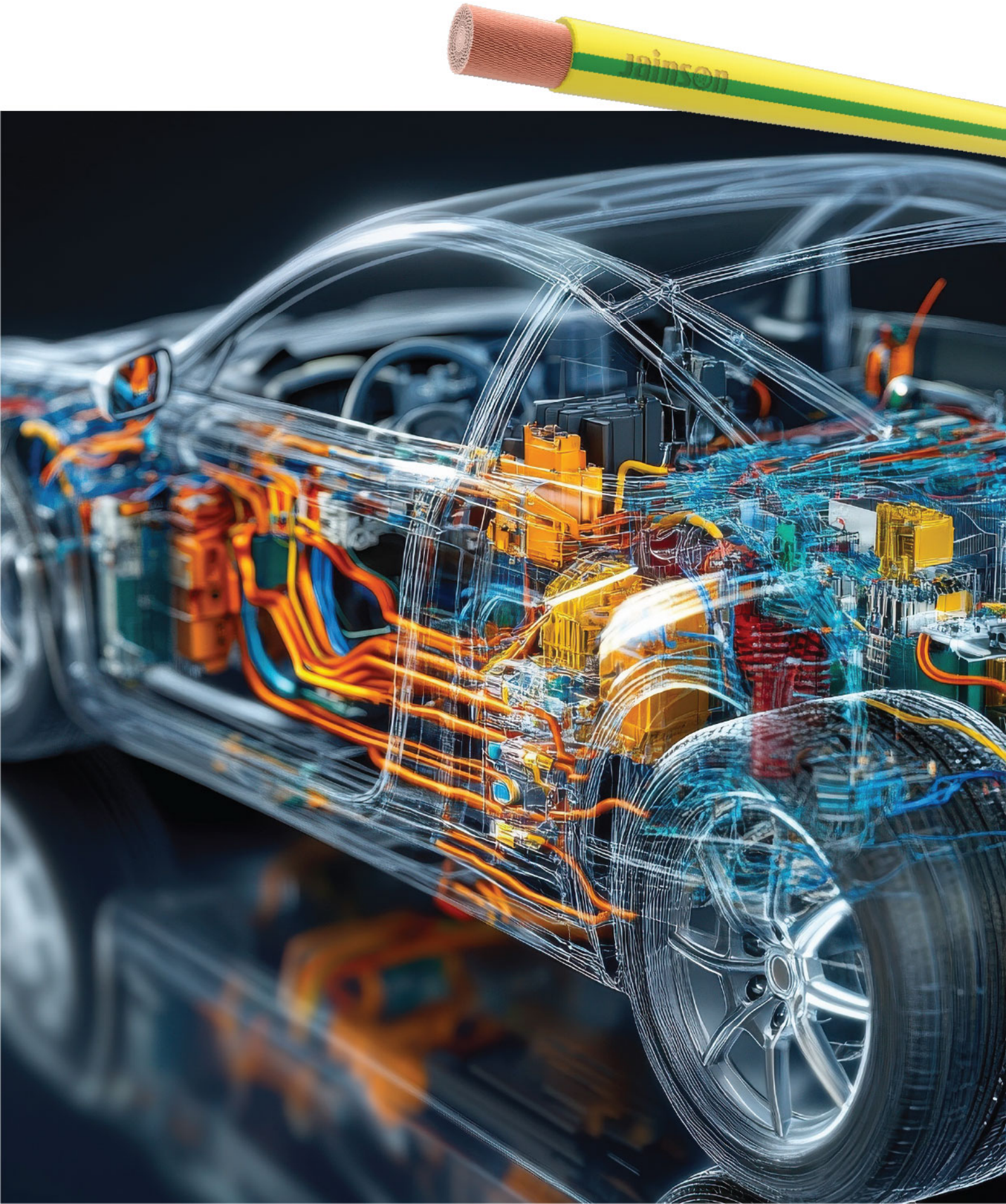
- All are flexible conductor
- Insulation material is NBR/TPE
- Sheath material is NBR

Rating factors for variation in ambient temperature

Ambient temperature °C	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°
Rating Factor	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.69	0.64	0.57

*Any other Color on specific request can also be supplied

AUTOMOTIVE
WIRES



Structure & Technical Data

Conductor : Soft or annealed copper wire according to ASTM B3 or EN 13602

Insulation : Heat resistant PVC as per ISO 19642 Temperature class T2 & T3

Colours : Black, Blue, Brown, Green, Orange, Red, Violet, White & Yellow*

Temperature Rating : T2 (-40°C to +100°C) & T3 (-40°C to +125°C)

Voltage Rating Thin Wall : 30 V AC or 60 V DC

Voltage Rating Thick Wall : 600 V AC or 900 V DC

Note : Other colour can be manufctured based on agreement between customer and supplier.

Cable Features

- ROHS compliant PVC polymer
- Flame retardant
- Highly resistant against acids, Petrol and diesel

Applications

- Internal wiring harnesses
- Lighting systems
- Control panels and dashboards
- Infotainment and navigation systems
- Power distribution inside cabins
- Battery and sensor connections

Cross Sectional Area	No. of Strand/Max Strand Diameter	Max. Conductor Resistance at 20°C		Minimum Insulation Thickness		Minimum Cable Diameter		Maximum Cable Diameter	
		Plain Copper	Sn Plated Copper	Thin Wall	Thick Wall	Thin Wall	Thick Wall	Thin Wall	Thick Wall
Sq. mm.	mm	Ω/km	Ω/km	mm	mm	mm	mm	mm	mm
0.35	12/0.21	54.400	55.500	0.20	-	1.2	-	1.4	-
0.50	16/0.21	37.100	38.200	0.22	0.48	1.4	2.0	1.6	2.30
0.75	24/0.21	24.700	25.400	0.24	0.48	1.7	2.2	1.9	2.50
1.00	32/0.21	18.500	19.100	0.24	0.48	1.9	2.4	2.1	2.70
1.25	16/0.33	14.900	15.900	0.24	0.48	2.1	2.4	2.3	2.95
1.50	30/0.26	12.700	13.000	0.24	0.48	2.2	2.7	2.4	3.00
2.00	28/0.31	9.420	9.690	0.28	0.48	2.5	3.0	2.8	3.30
2.50	50/0.26	7.600	7.820	0.28	0.56	2.7	3.3	3.0	3.60
3.00	44/0.31	6.150	6.360	0.32	0.56	3.1	3.8	3.4	4.10
4.00	56/0.31	4.710	4.850	0.32	0.64	3.4	4.0	3.7	4.40
5.00	65/0.33	3.940	4.020	0.32	0.64	3.9	4.5	4.2	4.90
6.00	84/0.31	3.140	3.230	0.32	0.64	4.0	4.6	4.3	5.00
8.00	50/0.46	2.380	2.520	0.32	0.64	4.6	5.0	5.0	5.90
10.00	80/0.41	1.820	1.850	0.48	0.80	5.3	5.9	6.0	6.50
12.00	96/0.41	1.520	1.600	0.48	0.80	5.8	6.6	6.5	7.40
16.00	126/0.41	1.160	1.180	0.52	0.80	6.4	7.7	7.2	8.30
20.00	152/0.41	0.955	0.999	0.52	0.88	7.0	8.1	7.8	9.10
25.00	196/0.41	0.743	0.757	0.52	1.04	7.9	9.4	8.7	10.40
30.00	224/0.41	0.647	0.684	-	1.04	-	9.7	-	10.90
35.00	276/0.41	0.527	0.538	0.64	1.04	9.4	9.6	10.4	11.60
40.00	308/0.41	0.473	0.500	0.71	1.12	10.0	11.2	11.1	12.40
50.00	396/0.41	0.368	0.375	0.71	1.20	11.0	11.5	12.2	13.50
60.00	296/0.51	0.315	0.333	0.80	1.20	12.0	13.4	13.3	14.60
70.00	360/0.51	0.259	0.264	0.80	1.20	13.0	13.5	14.4	15.50
95.00	475/0.51	0.196	0.200	0.90	1.28	15.3	16.0	16.7	18.00
120.00	608/0.51	0.153	0.156	-	1.28	-	17.7	-	19.70

*Any other Color on specific request can also be supplied

POWER CORDS

Power Cord Structure

Generally, conform to, based on the IS:1293, IS:694 and IEC standards.

Conductor : High conducitivity, bare annnealed copper flexible conductor, EC copper Class 5 generally conforms to IEC 60225, DIN VDE 0281.

Mould Material : Soft PVC or Rubber

Cable Insulation : Extra Flexible Soft PVC

Colours : Black, White, Orange*

Power Cord Features

- Ultra high performance flexible cords.
- Better flame retardant & shock properties.
- High resistance to cuts, tears & abrasion.
- Excellent ozone and weather resistant.
- Longer Flex life.
- Excellent mechanical & electrical properties.

Power Cord Application

Power cords are used across home and office electronics like computers, TVs, and kitchen appliances; in commercial equipment such as POS systems, medical devices, and retail kiosks; for light duty industrial use with portable tools, lab setups, and temporary power needs; in data centers for servers, switches, and UPS systems with organized cabling; and in export manufacturing, ensuring compliance with international plug types, voltages, and safety standards.

2 Pin Moulded Cords

Cross Sectional Area Sq. mm.	Copper Construction Nos./mm	Insulation Thickness (Nom)	Sheath thickness (Nom)	No. of core	Shape	O.D. (mm) (Aprx.)	Amperes	Standard
0.50	16/0.200	0.6	0.9	2	Round	6.1	6	IS 1293
0.75	24/0.200	0.6	0.9	2	Round	6.5	6	IS 1293
1.50	30/0.250	0.6	0.9	2	Round	7.45	6	IS 1293

3 Pin Moulded Cords

Cross Sectional Area Sq. mm.	Copper Construction Nos./mm	Insulation Thickness (Nom)	Sheath thickness (Nom)	No. of core	Shape	O.D. (mm) (Aprx.)	Amperes	Standard
0.50	16/0.200	0.6	0.9	3	Triangular	6.50	6	IS 1293
0.75	24/0.200	0.6	0.9	3	Triangular	6.85	6	IS 1293
1.00	32/0.200	0.6	0.9	3	Triangular	7.25	6	IS 1293
1.50	30/0.250	0.6	0.9	3	Triangular	7.90	16	IS 1293
2.50	50/0.250	0.7	1.0	3	Triangular	8.60	16	IS 1293

*Any other Color on specific request can also be supplied

SOLAR
CABLES

Cable Structure

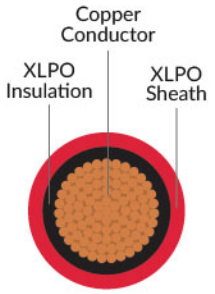
Type : Jainson PV Solar cables

Conductor : ATC of Class 5 as per EN 50618, IEC 62930, IEC 60228

Insulation : XLPO (Cross-linked Polyolefin)

Sheath : XLPO (Cross-linked Polyolefin)

Colours : Red, Black, Yellow*



Single Core Cross-linked Polyolefin Tinned Copper Solar Cable

Cross section area	Nos & Diameter of Wire	Nominal Insulation Thickness	Nominal Core Diameter	Nominal Sheath Thickness	Maximum Cable Diameter	Maximum Conductor Resistance at 20°C	Current Carrying Capacity at 60°C in air
Sq. mm.	Nos./mm	mm	mm	mm	mm	Ω/km	Amps
1.5	30/0.250	0.70	2.90	0.80	5.40	13.7000	30
2.5	50/0.250	0.70	3.80	0.80	5.90	8.2100	41
4.0	56 /0.300	0.70	3.90	0.80	6.60	5.0900	55
6.0	84 / 0.300	0.70	4.40	0.80	7.40	3.3900	70
10.0	140/0.300	0.70	5.50	0.80	8.80	1.9500	98
16.0	224/0.300	0.70	6.50	0.90	10.10	1.2400	132
25.0	350/0.300	0.90	8.30	1.00	12.50	0.7950	176
35.0	490/0.300	0.90	9.50	1.10	14.00	0.5650	218
50.0	703/0.300	1.00	11.20	1.20	16.30	0.3930	276
70.0	988/0.300	1.10	13.20	1.20	18.70	0.2770	347
95.0	1349/0.300	1.10	14.70	1.30	20.80	0.2100	416
120.0	608/0.500	1.20	16.60	1.30	22.80	0.1640	488
150.0	760/0.500	1.40	18.60	1.40	25.50	0.1320	566
185.0	943/0.500	1.60	20.90	1.60	28.50	0.1080	644
240.0	1225/0.500	1.70	23.7	1.70	32.10	0.0817	775

Applications

Interconnecting Solar Panels

- PV cables link multiple solar panels in series or parallel configurations.
- Designed to withstand UV radiation, extreme temperatures, and ozone exposure.
- Flexible and weather-resistant for rooftop and ground-mounted arrays.

DC Power Transmission

- DC solar cables carry direct current from panels to inverters.
- Double-insulated for high voltage (up to 1,000V or more) and outdoor durability.
- Critical for minimizing power loss over long distances.

AC Power Distribution

- AC cables transmit inverter-converted power to the grid or load centers.
- Used in residential, commercial, and utility-scale solar installations.
- Typically copper or aluminum with flame-retardant insulation.

Battery Bank Connections

- Heavy-duty battery cables link batteries to charge controllers and inverters.
- Thick insulation prevents short circuits and handles high current loads.
- Common in off-grid and hybrid solar systems.

Grounding & Surge Protection

- Grounding cables protect against electrical faults and lightning strikes.
- Ensures system safety and compliance with IEC/EN standards.
- Often tinned copper for corrosion resistance.

*Any other Color on specific request can also be supplied

SUBMERSIBLE WINDING
WIRES

Construction

Conductor : EC Grade Annealed Bare Copper

Tape : Polyester & BOPP (Bi-axially oriented poly propylene)

Applications

Especially designed for use in submersible motors and pumps, ensuring reliable insulation and long-lasting performance under water. With excellent mechanical strength, high dielectric properties, and resistance to moisture, Jainson winding wires provide superior winding solutions for continuous and demanding operations and are ideal for ensuring durability, safety, and efficiency in submersible applications.

Cable Features

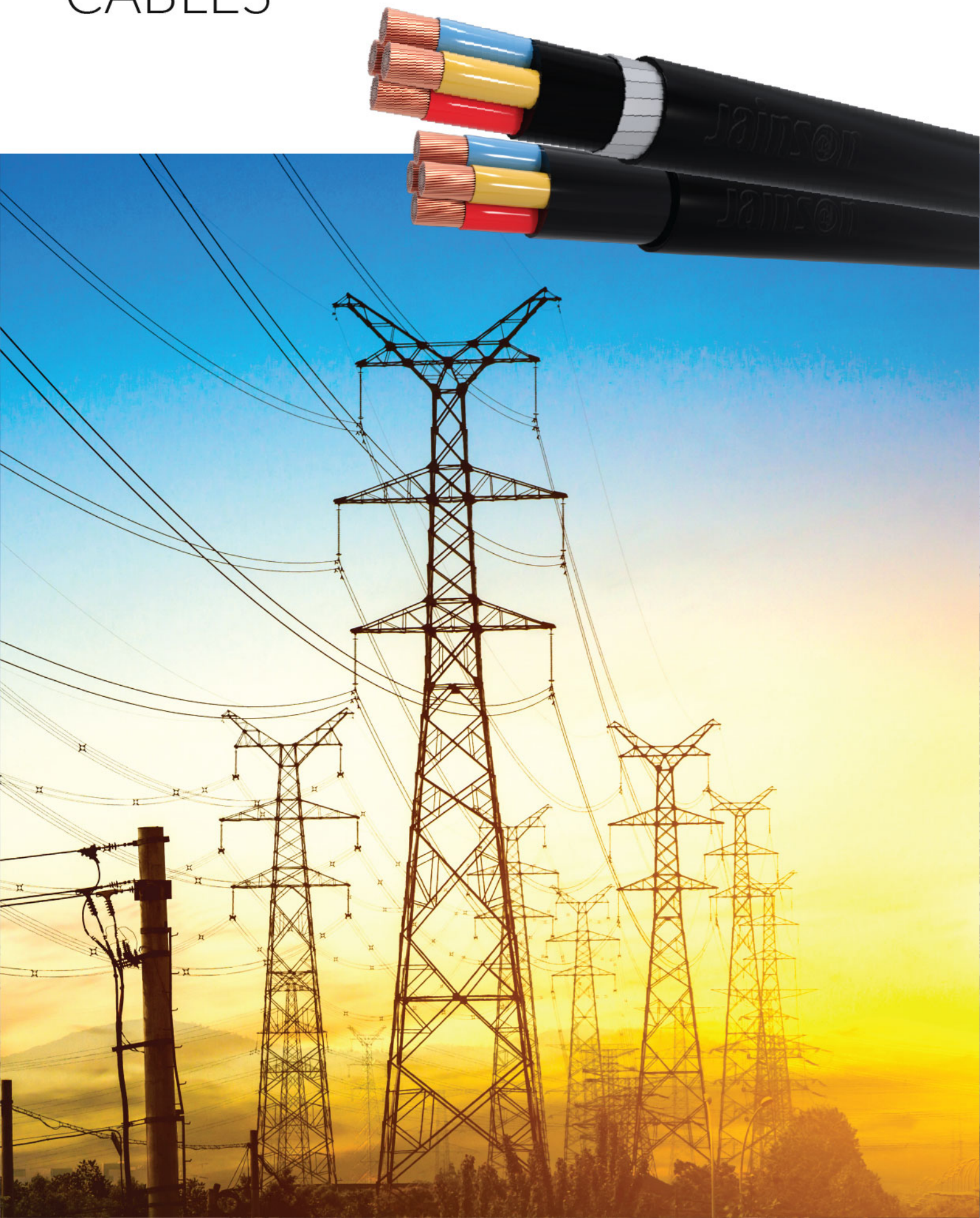
- Good Temperature Resistance.
- Excellent Corrosion Resistance.
- Good Tear Resistance.
- High Tensile Strength.
- Negligible Leakage Current.
- Easily Bendable for easy Winding.
- Firm Insulation for high mechanical strength.
- Good Chemical and Thermal Resistant Properties.

Specification

Nominal Conductor Diameter	Conductor Cross Sectional Area Nominal	Appx. Overall Diameter	Max. D.C Conductor Resistance	Elongation (min)	Appx. Weight Per 1000m
mm	mm	mm	Ω/km	%	kg.
0.4	0.126	0.8	140.00	24	1.47
0.5	0.196	0.9	89.60	25	2.15
0.6	0.283	1.0	62.20	26	2.98
0.7	0.385	1.1	45.70	28	3.95
0.8	0.502	1.2	*35.00	28	5.05
0.9	0.636	1.3	27.60	29	6.30
1.0	0.785	1.4	22.40	30	7.80
1.1	0.950	1.5	18.50	30	9.20
1.2	1.130	1.6	15.50	31	10.90
1.3	1.330	1.7	13.20	32	12.70
1.4	1.540	1.9	11.40	32	14.90
1.5	1.770	2.0	9.95	32	17.00
1.6	2.010	2.1	8.75	32	19.20
1.7	2.270	2.2	7.75	32	21.60
1.8	2.540	2.3	6.91	32	24.20
1.9	2.840	2.4	6.20	32	26.80
2.0	3.140	2.5	5.60	33	29.60
2.1	3.460	2.6	5.08	33	32.55
2.2	3.800	2.7	4.63	33	35.60
2.3	4.150	2.8	4.23	33	38.85
2.4	4.520	2.9	3.89	33	42.20
2.5	4.910	3.0	3.58	33	45.70
2.6	5.310	3.1	3.31	34	49.30
2.7	5.730	3.2	3.07	34	53.10
2.8	6.160	3.3	2.86	34	57.00
2.9	6.610	3.4	2.66	34	61.05
3.0	7.070	3.5	2.49	34	65.25

*Any other Color on specific request can also be supplied

LT POWER AND CONTROL
CABLES



LT POWER & CONTROL CABLES - VARIANTS

XLPE Armoured Cable

Construction

Conductor : Copper
Insulation : XLPE
Inner Sheath : PVC
Armouring : GI Wire or Strip
Sheath : PVC
2 core : Red, Black
3 core : Red, Yellow, Blue
4 core : Red, Yellow, Blue, Black

Cable Features

- Voltage Rating up to 1100 V
- Flame Retardant
- Temperature Rating -15°C to 90°C
- Short Circuit Rating 250°C for 5 Sec
- High Mechanical Strength

XLPE Unarmoured Cable

Construction

Conductor : Copper
Insulation : XLPE
Inner Sheath : PVC
Sheath : PVC
Core Colours :
2 core : Red, Black
3 core : Red, Yellow, Blue
4 core : Red, Yellow, Blue, Black

Cable Features

- Voltage Rating up to 1100 V
- Flame Retardant
- Temperature Rating -15°C to 90°C
- Short Circuit Rating 250°C for 5 Sec
- High Flexibility

PVC Armoured Cable

Construction

Conductor : Copper
Insulation : PVC
Inner Sheath : PVC
Armouring : GI Wire or Strip
Sheath : PVC
2 core : Red, Black
3 core : Red, Yellow, Blue
4 core : Red, Yellow, Blue, Black

Cable Features

- Voltage Rating up to 1100 V
- Flame Retardant
- Temperature Rating -15°C to 70°C
- Short Circuit Rating 160°C for 5 Sec
- High Mechanical Strength

PVC Unarmoured Cable

Construction

Conductor : Copper
Insulation : PVC
Inner Sheath : PVC
Sheath : PVC
Core Colours :
2 core : Red, Black
3 core : Red, Yellow, Blue
4 core : Red, Yellow, Blue, Black

Cable Features

- Voltage Rating up to 1100 V
- Flame Retardant
- Temperature rating -15°C to 70°C
- Short Circuit Rating 160°C for 5 Sec
- High Flexibility

*Any other Color on specific request can also be supplied

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