



Since 1997

SRiNi LiNK®

Mfg. of Wires & Cables 

CONNECT YOUR FUTURE

LT POWER CABLES

IS :7098:1998 (PART-1)

IS :1554:1998 (PART-1)

XLPE & PVC **1.1 KV POWER CABLES**



www.srinilink.com

COMPANY PROFILE



SRiNi LiNK®
Mfg. of Wires & Cables
CONNECT YOUR FUTURE

A Warm welcome from **SRiNi LiNK TEAM.**

SRiNi LiNK produces one of the best cables & wires since 02 / 04 / 1997 for the existing customers & global market, by meeting their standards or customized requirement with a various product ranges.

To produce quality & quantity, we have installed all the best possible latest world class technologies machinery at our plant

For optimum consistency of quality, quantity & services along with traceability of material from incoming to dispatch, we have implemented ISO 9001-2015 system since 01 / 03 / 2001.

We cater varieties of product to many different customers, but for INDIAN, AMERICAN & CANADA & EUROPE market we have below certified PVC cable products by their respective departments

- | | |
|--------------------|---|
| 1) IS : 694 : 2010 | (BIS : Bureau of Indian Standards) |
| 2) IS 1554 | (BIS : Bureau of Indian Standards) |
| 3) IS 7098 | (BIS : Bureau of Indian Standards) |
| 4) EN-50525 | (CE : Conformite European) |
| 5) UL : 758 | (Underwriters Laboratories) |
| | a) Style 1007 b) Style 1015 c) Style 1569 d) Style 2129 e) 2464 |
| 6) UL : 62 | Parallel cord SPT-1, SPT-2 & SPT-3 |

Mfg. Different cable standard by matching their properties

- | | |
|----------------------------|--|
| 1) IS 2465 - 1984 | (BIS : Bureau of Indian Standard) |
| 2) ISO 6722 | (International Organisation for Standardisation) |
| 3) DIN 72551 - 6 | (Deutsches Institut für Normung) - Obsolete |
| 4) JASO D 611 / 608 | (Japanese Automobile Standard) |
| 5) JIS C 3406 - 1993 | (Japanese Industrial Standard) |
| 6) BS 6862 : Part 1 : 1971 | (BSI : British Standard Institute) |
| 7) EN-60228 | (EN-European Norm - Solar Cables) |
| 8) EN-50618 | (Solar Cables) |

In the consideration of environmental safety and green product, **SRiNi LiNK** has its own **GREEN GROUND** in form of **100% RoHS INHOUSE** PVC Compound manufacturing plant since 2003 along with **REACH Compliance** since 2011 (against demand)

With production technology, management system & maximum environmental friendly products, **SRiNi LiNK** has created its own unique & distinguish name for its quality product & services.

- a) Domestic market (Network Business)
- b) Automobile Industries (OEM)
- c) Appliances product (White goods)
- d) Panel Board & Distribution Board Mfg.
- e) Automobiles After market support

"**SRiNi LiNK**" the brand itself has created its glorious name in the market of automobile industries, switchgear, power industries & domestic wiring sector.



Vision

Our vision is to become the World's leading Wires & Cables Manufacturing Company, offering Our Valued Customers Latest & World Class Quality Products which are 100 % Safe & Environment friendly by following all Compliant, Statutory, Legal Practices and Social Obligations.



Mission

To capture minimum 50% Segment of Domestic Market for Industrial Wires & Cables, by FY-2025

To reach a status of "Green Channel", for 90% of our customers, by FY-2024

To Establish our reach ability in PAN India market , through setting up region wise Sales Outlets, Stock Points and Aggressive Marketing, supported by a Strong Sales Team with Logistical Hubs, by FY-2024



Values

We keep it real always and we are one for all.

We provide quality products and services that meet our customers needs.

History of FOUNDER **V. Deiva Sigamani**

On 01 September 1976 The founder of “**SRiNi LiNK**” **Mr. V. DEIVA SIGAMANI** started his career as a Machine operator in INDO FLEXIBLE CABLE AND WIRE INDUSTRIES PVT LTD (Mumbai), later within six month he has promoted as Senior operator incharge of maintenance. Along with working, he joined ITI training course for learning lathe, drilling, welding machine and other tools etc. with his knowledge, company team has developed Vertical stranding machine in-house.

Later in 1977 Company was shifting to Hyderabad with small part working in Mumbai, So Mr. V. DEIVA SIGAMANI was promoted to project Incharge for Hyderabad unit (machinery installation, man power recruitment and training to man power), and he had successfully accomplished the task within short period.

By seeing above all hard work and dedication, he was promoted to chief fore man of the company and subsequently promoted as work manager (fully incharge of the entire Hyderabad & Mumbai operation of the company) while his tenure, team has designed wiring harness for;

- Premier Automobiles Ltd.
- Mahindra & Mahindra Ltd.
- Capol farm Equipment Ltd. (Eicher Tractors Ltd), Etc
- Allwyn Nissan Ltd.
- Andhra Pradesh Scooters Ltd.

In the year 1983 With an individual thinking and demands of wiring harness in Indian automobile industries, He started his own unit in Hyderabad **M / s. SARAVANAN INDUSTRIES**, which undertook job work of INDO FLEXIBLE CABLE AND WIRE INDUSTRIES PVT LTD.

In the year 26 / 08 / 1986 A group of nine people and Mr. V. Deivasigamani as a founder & works director started a wiring harness unit named **M / s SRINISONS CABLES PVT LTD,**

- 1) Construction of shed.
- 2) Machinery layout and erection.
- 3) Development of tooling for wiring harness & battery cables mfg.
- 4) Recruitment & training of man power.
- 5) Sample development for customer & there approval from customer ends.
- 6) Quality assurance.
- 7) New development.

Above all work was taken care & successfully achieved by **Mr. V. Deivasigamani** in his working tenure.

- **MARUTI UDYOG LTD (OMNI VAN, Maruti 800, Gypsy)** • **BIRLA YAMAHA LTD (Portable Generators)**
- **SWARAJ MAZDA (Tempo)**

02 / 04 / 1997 SRiNi LiNK Journey begins with above all experience and high individual thinking of Mr. V. DEIVA SIGAMANI, who had setup a Proprietary firm named M / s SRiNi LiNK later in 2007 the same unit changed into partnership firm with his two sons.

Initially plant was setup to manufacture wiring harness for Automobile industries (OEM), Power cords for appliance industries (White goods). Later company has developed varieties of product range, which you can see in product list.

In the year 2003 The passion of development & seeing the competitive market, company has developed its own INHOUSE PVC compounding facility for HR, FR, HR-FR, FR-LSH, AVX, etc, but as the requirement of market & in consideration of Environment. Company has developed RoHS PVC Compound in 2006.

In the year 2007 The passion of development & seeing the competitive market, with concept of all major raw material in house, company has developed INHOUSE Wire drawing facility with Indian make machine, later in 2011 the facility was replaced by GERMAN technology 8 LINE WIRE DRAWING machine. From 2010 our PVC Compound unit is 100% RoHS and as per requirement.

In the year 2011 we have developed REACH Compliance PVC compound.

In the year 2014 INHOUSE PVC colour master batch 100% RoHS & Reach compliance.

With lots of development passion, today SRiNi LiNK has achieved a leading name in cables & wires industries through serving below 4 major segments

- Domestic Market (network sales)
- Panel Board & distribution board Mfg
- Automobiles Industries (OEM)
- Appliance industries (White Goods)

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SRiNi LiNK®
Mfg. of Wires & Cables 
CONNECT YOUR FUTURE

MANUFACTURING PROCESS

Armoured cable - IS 7098 PART -1 & IS 1554 PART -1
Unarmoured cable - IS 7098 PART -1 & IS 1554 PART -1

ALUMINIUM / COPPER ROD

Armoured & Unarmoured Cables (XLPE OR PVC)

Wire Drawing with Online Annealling

Wire to be drawn for required size

Stranding

Required conductor size to be manufactured with specific design

Insulation

Conductor to be insulated with PVC / XLPE as per required specification

Laying up

All rewind cores to be arranged together to form a 360 degree round cable with specified design

Inner Sheathing

To be done with required thickness specification

Armouring

To be done with required specification

Outer Sheath

To be done with required specification

Rewinding & Testing

All cables are rewind on Wooden / MS Drums & tests carried out as per required specification

Packing

All tested and passed cables are packed in required Wooden / MS Drums prior to despatch

ADVANTAGES & FEATURES

Armoured Cable - IS 7098 PART -1 & IS 1554 PART -1

Unarmoured Cable - IS 7098 PART -1 & IS 1554 PART -1

COPPER CONDUCTOR

- We use only ETP-1 grade COPPER conductor (Purity 99.90% to 99.97%)

ALUMINIUM CONDUCTOR

- We use only EC grade aluminium conductor (Purity 99.50% minimum)

GI WIRE/GI STRIP

1. Resistance to Rust & Corrosion which leads to Long Lifespan.
2. GI wire Mass of zinc coating 85.50 (min) (gm/m²) as per IS 3975
3. GI strip Mass of zinc coating 110 (min) (gm/m²) as per IS 3975

XLPE INSULATION

1. Higher Current Rating
2. Higher Short Circuit Rating
3. Longer Service Life.
4. Because of the thermosetting process taking place due to the effect of cross linking, the crack resistance is increased.
5. Due to the chemical cross-linking internal stresses are reduced. Consequently the material is less sensitive during manufacturing process to the setting of the cooling gradient.
6. The thermal resistivity of cross-linked material is favourably low, compared to thermoplastic material.
7. The low dielectric loss is a significant advantage.
8. The excellent mechanical features of the insulation improves the Protection against external effects.
9. The resistance of the XLPE to acids, alkalies is outstanding and is often compensating the adverse environmental influences.
10. Resistance to high voltage electricity.
11. XLPE insulation can withstand higher temperatures. Cross-linked polyethylene features more moisture resistance.
12. We use XLPE insulation which had pass total no of 13 test as per IS 7098 (PART-1):1988. XLPE has a longer life than PVC.

PVC INSULATION

1. Generally we give Type A
2. Type A - FR & FRLSH (as per Customer Requirement)
3. Type C - HR-FR & HR-FRLSH (as per Customer Requirement)
4. We use only 100% RoHS/REACH compliance PVC.

PVC OUTER SHEATH

1. Non-migration of compound permitting vertical installation.
2. Complete protection against most forms of electrolytic and chemical corrosion.
3. A tough and resilient sheath with excellent fire - resisting qualities.
4. Good ageing characteristics.
5. TYPE ST-2 -PVC/FRLS-PVC (As per customer required)
6. We use only 100% RoHS/REACH compliance PVC.



Since 1997

SRini LINK®

Mfg. of Wires & Cables
CONNECT YOUR FUTURE

BIS Certifications

भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
Ministry of Consumer Affairs, Government of India

Attachment to Licence No. CM/L-7200096012

CML	Name of the Licensee with the Factory Address	Name of the Product	Indian Standard No.
7200096012	SRINI LINK Plot No. 138B/2, Phase 3, Road No. 19 GDC Industrial Estate, City Underpass 386171, Dist-Vadodra, Gujarat, India	Conductors insulated with PVC sheath and PVC jacketed cables up to and including 110V	IS 1554 - PART 1: 1986

Endorsement No. 2 Dated: 28.01.2020

Whereas, the licence was valid upto 14/08/2018.

Now, consequent upon renewal, the validity of licence given in schedule of the Endorsement No. 2 has been extended from Fourteenth August Two Thousand Twenty to Sixteenth August Two Thousand Twenty One.

Consequent upon the addition in the scope of licence as approved by the Bureau with effect from 15.08.2020 the revised scope of licence in Column (2) of the table in schedule of the Licence along with the Standard Mark in Column (3) of the table is amended as follows:

Conductors insulated with thermoplastic sheath cables for electric supply and control systems, armoured / Unarmoured with Aluminium / Copper conductor class 1/2, category 2/3/4/5 except for the following:

- Single core cable size up to and including 400 sq mm
- Multiple core cable size up to and including 400 sq mm

Other terms and conditions of the licence remain the same.

(S.K. Singh)
Secretary & Head

भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
Ministry of Consumer Affairs, Government of India

Attachment to Licence No. CM/L-7100003675

CML	Name of the Licensee with the Factory Address	Name of the Product	Indian Standard No.
7100003675	SRINI LINK Plot No. 138B/2, Phase 3, Road No. 19 GDC Industrial Estate, City Underpass 386171, Dist-Vadodra, Gujarat, India	PVC insulated (heavy duty) sheath cables Part 1 For working voltages up to and including 110V	IS 1554 - PART 1: 1986

Endorsement No. 2 Dated: 28.01.2020

The following addition in the scope of licence has been approved by the Bureau with effect from Fifteenth September Two Thousand Twenty One:

PVC insulated and Sheathed Heavy Duty Cable for electric supply and control purposes, armoured / Unarmoured, with Aluminium / Class 1/2 Insulation Type A/Sheath Type 1/2, Category B/C/D/E, except for use in Mines, including Low Temperature Applications for working voltages up to and including 110V for single core and multi core up to and including 4 cores, size up to and including 400 sq mm.

Consequent upon the above changes, the revised scope of licence in Column (2) of the table in schedule of the Licence along with the Standard Mark in Column (3) of the table is amended as follows:

Other terms and conditions of licence remain same.

(S.K. Singh)
Director and Head

Licence No: CM/L- 7200096012

Licence No: CM/L- 7100003675

ACCREDITATIONS

ISO Certifications

INTERCERT®
CERTIFICATE OF REGISTRATION

INTERCERT hereby certifies that the Environmental Management System of

M/s. SRINI LINK

Plot No. 138B/2, 138B/1 & 138B/2, Phase 3, Road No. 19 GDC Industrial Estate, City Underpass 386171, Dist-Vadodra, Gujarat, India

Has been successfully assessed as per the requirements of

ISO 14001:2015

For the scope of

Manufacturing of Copper & Aluminium Wires and Cables, PVC, XLPE, HFFR, TPU Insulated Wires & Sheath Cables, Armoured & Unarmoured (Power & Control) Cables, Instrumentation Cables, Braided Wires (Round and Flat), Battery Cables, Communication Cables, PVC Sheaves, Solar Cables, and Electrical Wires and Cables.

Initial Certification Date: January 05, 2019
Certificate Issue Date: January 05, 2022
Surveillance Validity Date: January 04, 2023
Recertification Date: January 04, 2025

Registration Number: IC-EM-1301024

Issued on behalf of Intertec Head - Certifications

IAF IAS

EMS Certification

INTERCERT®
CERTIFICATE OF REGISTRATION

INTERCERT hereby certifies that the Occupational Health & Safety Management System of

M/s. SRINI LINK

Plot No. 138B/2, 138B/1 & 138B/2, Phase 3, Road No. 19 GDC Industrial Estate, City Underpass 386171, Dist-Vadodra, Gujarat, India

Has been successfully assessed as per the requirements of

ISO 45001:2018

For the scope of

Manufacturing of Copper & Aluminium Wires and Cables, PVC, XLPE, HFFR, TPU Insulated Wires & Sheath Cables, Armoured & Unarmoured (Power & Control) Cables, Instrumentation Cables, Braided Wires (Round and Flat), Battery Cables, Communication Cables, PVC Sheaves, Solar Cables, and Electrical Wires and Cables.

Initial Certification Date: January 05, 2019
Certificate Issue Date: January 05, 2022
Surveillance Validity Date: January 04, 2023
Recertification Date: January 04, 2025

Registration Number: IC-OS-1301025

Issued on behalf of Intertec Head - Certifications

IAF IAS

OHSMS Certification

INTERCERT®
CERTIFICATE OF REGISTRATION

INTERCERT hereby certifies that the Quality Management System of

M/s. SRINI LINK

Plot No. 138B/2, 138B/1 & 138B/2, Phase 3, Road No. 19 GDC Industrial Estate, City Underpass 386171, Dist-Vadodra, Gujarat, India

Has been successfully assessed as per the requirements of

ISO 9001:2015

For the scope of

Manufacturing of Copper & Aluminium Wires and Cables, PVC, XLPE, HFFR, TPU Insulated Wires & Sheath Cables, Armoured & Unarmoured (Power & Control) Cables, Instrumentation Cables, Braided Wires (Round and Flat), Battery Cables, Communication Cables, PVC Sheaves, Solar Cables, and Electrical Wires and Cables.

Initial Certification Date: January 05, 2019
Certificate Issue Date: January 05, 2022
Surveillance Validity Date: January 04, 2023
Recertification Date: January 04, 2025

Registration Number: IC-QM-1301023

Issued on behalf of Intertec Head - Certifications

IAF IAS

QMS Certification

Technical Details :

Single Core, Aluminium / Copper Conductor, XLPE Insulated, Unarmoured Cables 1100 V (1.1 KV)

Cable Code : **A2XY / 2XY**

Conductor Material : Aluminium / Copper as per Class 1&2 of IS: 8130

Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular

Insulation Material : **XLPE (Cross linked polyethylene)**; **Colour** : As per requirement

Outer Sheath : PVC Type ST-2 as per IS: 5831; Options : **FR Type / FRLS Type**

Colour of Outer Sheath : Black or any other Colour as per requirement



SRINI LINK®

Mfg. of Wires & Cables
CONNECT YOUR FUTURE

UNARMoured CABLES

(Generally conforming to 7098 Part - 1)

Single
Core } XLPE



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART-6)						Minimum No. of Strand in Conductor		Nominal Thickness of Insulation	Nominal Outer Sheath Thickness	Approx. overall Diameter of Cable	Approx. Weight of Cable		Max. Conductor D.C. Resistance at 20°C	
	For Aluminium Conductor			For Copper Conductor								with Aluminium Conductor	with Copper Conductor		
	Ground	Duct	Air	Ground	Duct	Air	Alu.	Copper				Alu.	Copper		
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
4	43	36	39	54	46	48	1 / 3	1 / 3	0.70	1.80	7	70	90	7.41	4.61
6	55	47	50	67	57	61	1 / 3	1 / 3	0.70	1.80	8	80	110	4.61	3.08
10	69	58	64	90	76	83	1 / 7	6	0.70	1.80	9	90	160	3.08	1.83
16	89	75	84	115	97	108	6	6	0.70	1.80	10	130	250	1.91	1.15
25	115	96	112	148	154	144	6	6	0.90	1.80	11	150	350	1.2	0.727
35	137	115	137	177	148	176	6	6	0.90	1.80	12	200	450	0.868	0.524
50	161	165	165	208	174	212	6	6	1.00	1.80	14	250	550	0.641	0.387
70	198	165	209	255	213	269	12	12	1.10	1.80	16	350	750	0.443	0.268
95	243	199	264	315	256	340	15	15	1.10	1.80	18	450	1000	0.32	0.193
120	276	226	308	355	291	396	15	18	1.20	2.00	19	500	1250	0.253	0.153
150	308	252	350	396	324	450	15	18	1.40	2.00	21	650	1500	0.206	0.124
185	349	285	406	447	365	519	30	30	1.60	2.00	24	800	1850	0.164	0.0991
240	404	329	480	515	420	613	30	34	1.70	2.00	26	950	2400	0.125	0.0754
300	454	369	551	576	469	700	30	34	1.80	2.00	29	1150	2950	0.100	0.0601
400	518	421	647	651	528	813	53	53	2.00	2.20	33	1500	3750	0.0778	0.0470

Technical Details :

Single Core, Aluminium / Copper Conductor, XLPE Insulated, Armoured Cables 1100 V (1.1 KV)

Cable Code : **A2XFY / 2XFY / A2XWY / 2XWY** or as Customer requirement **A2XFaY / 2XFaY / A2XWaY / 2XWaY**

Conductor Material : Aluminium / Copper as per Class 1 & 2 of IS: 8130

Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular

Insulation Material : **XLPE (Cross linked polyethylene)**; **Colour** : As per requirement

Inner Sheath : PVC Type ST-2 as per IS: 5831; **Options** : **FR Type / FRLS Type**

Armouring : Single Layer of Aluminium Round Wire / Flat Strip"

Outer Sheath : PVC Type ST-2 as per IS: 5831; **Options** : **FR Type / FRLS Type**

Colour of Outer Sheath : Black or any other Colour as per requirement



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Mfg. of Wires & Cables
CONNECT YOUR FUTURE

ARMoured CABLES

(Generally conforming to 7098 Part - 1)

Single
Core } XLPE



Product Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART-6)						Minimum No. of Strand in Conductor		Nominal Thickness of Insulation	Flat Strip Armoured (A2XFY / 2XFY)					Round Wire Armoured (A2XWY / 2XWY)					Max. Conductor D.C. Resistance at 20°C	
	For Alu. Conductor			For Cu. Conductor						Nominal Armour Strip Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable		Nominal Armour Round Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable			
	Ground	Duct	Air	Ground	Duct	Air							with Aluminium Conductor	with Copper Conductor				with Aluminium Conductor	with Copper Conductor		
							Alu.	Copper												Alu.	Copper
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	mm	kg / km	kg / km	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
4	43	36	39	54	46	48	1 / 3	1 / 3	1.00	NA	NA	NA	NA	NA	1.40	1.24	10	120	150	7.41	4.61
6	55	47	50	67	57	61	1 / 3	1 / 3	1.00	NA	NA	NA	NA	NA	1.40	1.24	11	130	170	4.61	3.08
10	69	58	64	90	76	83	1 / 7	6	1.00	NA	NA	NA	NA	NA	1.40	1.24	12	150	220	3.08	1.83
16	89	75	84	115	97	108	6	6	1.00	NA	NA	NA	NA	NA	1.40	1.24	12	200	300	1.91	1.15
25	115	96	112	148	154	144	6	6	1.20	NA	NA	NA	NA	NA	1.40	1.24	14	250	400	1.2	0.727
35	137	115	137	177	148	176	6	6	1.20	NA	NA	NA	NA	NA	1.40	1.24	15	300	500	0.868	0.524
50	161	165	165	208	174	212	6	6	1.30	NA	NA	NA	NA	NA	1.40	1.24	16	360	650	0.641	0.387
70	198	165	209	255	213	269	12	12	1.40	NA	NA	NA	NA	NA	1.40	1.24	18	450	850	0.443	0.268
95	243	199	264	315	256	340	15	15	1.40	4 X 0.80	1.40	19	500	1100	1.60	1.40	21	600	1150	0.32	0.193
120	276	226	308	355	291	396	15	18	1.50	4 X 0.80	1.40	21	600	1300	1.60	1.40	22	700	1400	0.253	0.153
150	308	252	350	396	324	450	15	18	1.70	4 X 0.80	1.40	23	700	1600	1.60	1.40	24	800	1650	0.206	0.124
185	349	285	406	447	365	519	30	30	1.90	4 X 0.80	1.40	25	900	1950	1.60	1.40	26	950	2050	0.164	0.0991
240	404	329	480	515	420	613	30	34	2.00	4 X 0.80	1.40	27	1050	2500	1.60	1.4	29	1150	2600	0.125	0.0754
300	454	369	551	576	469	700	30	34	2.10	4 X 0.80	1.56	30	1300	3100	1.60	1.56	32	1400	3200	0.100	0.0601
400	518	421	647	651	528	813	53	53	2.40	4 X 0.80	1.56	34	1650	3900	2.00	1.56	36	1850	4100	0.0778	0.0470

Technical Details :



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UNARMoured CABLES

(Generally conforming to 7098 Part - 1)

Two Core, Aluminium / Copper Conductor, XLPE Insulated, Unarmoured Cables 1100 V (1.1 KV)

Cable Code : **A2XY / 2XY**

Conductor Material : Aluminium / Copper as per Class - 1 & 2 of IS: 8130

Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular

Insulation Material : **XLPE (Cross linked polyethylene)**; **Colour** : Red & Black

Outer Sheath : PVC Type ST-2 as per IS: 5831; Options : **FR Type / FRLS Type**

Colour of Outer Sheath : Black or any other Colour as per requirement

Two
Core } XLPE



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART-6)						Minimum No. of Strand in Conductor		Nominal Thickness of Insulation	Nominal Inner Sheath Thickness	Nominal Outer Sheath Thickness	Approx. overall Diameter of Cable	Approx. Weight of Cable		Max. Conductor D.C. Resistance at 20°C	
	For Aluminium Conductor			For Copper Conductor									with Aluminium Conductor	with Copper Conductor		
	Ground	Duct	Air	Ground	Duct	Air	Alu.	Copper					Alu.	Copper		
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
1.50	26	22	22	37	27	27	1/3	1/3	0.70	0.30	1.80	10	120	130	18.1	12.1
2.50	32	27	28	41	35	36	1/3	1/3	0.70	0.30	1.80	11	140	160	12.1	7.41
4	42	36	38	54	45	48	1/3	1/3	0.70	0.30	1.80	12	180	240	7.41	4.61
6	55	46	50	67	56	61	1/3	1/3	0.70	0.30	1.80	13	220	300	4.61	3.08
10	89	75	83	68	57	64	1/7	6	0.70	0.30	1.80	15	280	420	3.08	1.83
16	89	74	83	115	96	108	6	6	0.70	0.30	1.80	14	250	450	1.91	1.15
25	114	95	109	147	122	140	6	6	0.90	0.30	2.00	18	400	700	1.2	0.727
35	136	113	133	176	146	172	6	6	0.90	0.30	2.00	19	450	900	0.868	0.524
50	161	134	162	208	173	208	6	6	1.00	0.30	2.00	21	600	1150	0.641	0.387
70	197	164	204	253	211	262	12	12	1.10	0.40	2.00	24	750	1550	0.443	0.268
95	235	196	251	302	252	322	15	15	1.10	0.40	2.20	27	950	2100	0.32	0.193
120	266	222	287	340	284	368	15	18	1.20	0.40	2.20	29	1150	2550	0.253	0.153
150	296	248	328	379	317	419	15	18	1.40	0.50	2.20	31	1350	3100	0.206	0.124
185	335	281	379	425	357	482	30	30	1.60	0.50	2.40	35	1700	3850	0.164	0.0991
240	385	324	448	486	409	566	30	34	1.70	0.50	2.60	40	2150	5000	0.125	0.0754
300	432	364	513	541	456	644	30	34	1.80	0.60	2.80	43	2650	6200	0.100	0.0601
400	487	412	593	602	508	734	53	53	2.00	0.60	3.00	48	3300	7850	0.0778	0.0470

Technical Details :

Two Core, Aluminium / Copper Conductor, XLPE Insulated, Armoured Cables 1100 V (1.1 KV)

Cable Code : A2XFY / 2XFY, A2XWY / 2XWY

- Conductor Material** : Aluminium / Copper as per Class 1&2 of IS: 8130
- Shape of Conductor** : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular
- Insulation Material** : **XLPE (Cross linked polyethylene)**; Colour : Red & Black
- Inner Sheath** : PVC Type ST-2 as per IS: 5831; Options : **FR Type / FRLS Type**
- Armouring** : Single Layer of Galvanized Steel Round Wire / Flat Strip"
- Outer Sheath** : PVC Type ST-2 as per IS: 5831; Options : **FR Type / FRLS Type**
- Colour of Outer Sheath** : Black or any other Colour as per requirement



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ARMoured CABLES

(Generally conforming to 7098 Part - 1)

Two
Core } XLPE



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART-6)						Minimum No. of Strand in Conductor		Nominal Thickness of Insulation	Minimum Inner Sheath Thickness	Flat Strip Armoured (A2XFY / 2XFY)					Round Wire Armoured (A2XWY / 2XWY)					Max. Conductor D.C. Resistance at 20°C	
	For Alu. Conductor			For Cu. Conductor							Nominal Armour Strip Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable		Nominal Armour Round Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable			
	Ground	Duct	Air	Ground	Duct	Air								with Aluminium Conductor	with Copper Conductor				with Aluminium Conductor	with Copper Conductor		
							Alu.	Copper													Alu.	Copper
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	mm	mm	kg / km	kg / km	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
1.5	26	22	22	37	27	27	1 / 3	1 / 3	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.24	11.7	320	360	18.1	12.1
2.5	32	27	28	41	35	36	1 / 3	1 / 3	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.24	12.3	350	410	12.1	7.41
4	42	36	38	54	45	48	1 / 3	1 / 3	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.24	14	370	470	7.41	4.61
6	55	46	50	67	56	61	1 / 3	1 / 3	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.24	15	460	550	4.61	3.08
10	89	75	83	68	57	64	1 / 7	6	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.24	17	530	700	3.08	1.83
16	89	74	83	115	96	108	6	6	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.40	17	550	750	1.91	1.15
25	114	95	109	147	122	140	6	6	0.90	0.30	4 X 0.80	1.40	18.00	550.00	850.00	1.60	1.40	20	750	1050	1.2	0.727
35	136	113	133	176	146	172	6	6	0.90	0.30	4 X 0.80	1.40	20.00	650.00	1050.00	1.60	1.40	21	850	1250	0.868	0.524
50	161	134	162	208	173	208	6	6	1.00	0.30	4 X 0.80	1.40	22.00	750.00	1350.00	1.60	1.40	23	1000	1550	0.641	0.387
70	197	164	204	253	211	262	12	12	1.10	0.30	4 X 0.80	1.56	25.00	1000.00	1800.00	1.60	1.56	26	1250	2050	0.443	0.268
95	235	196	251	302	252	322	15	15	1.10	0.40	4 X 0.80	1.56	27	1250	2350	2.00	1.56	30	1700	2800	0.32	0.193
120	266	222	287	340	284	368	15	18	1.20	0.40	4 X 0.80	1.56	30	1450	2850	2.00	1.56	32	1950	3350	0.253	0.153
150	296	248	328	379	317	419	15	18	1.40	0.40	4 X 0.80	1.72	32	1700	3450	2.00	1.72	35	2250	4000	0.206	0.124
185	335	281	379	425	357	482	30	30	1.60	0.50	4 X 0.80	1.72	35	2050	4200	2.00	1.88	38	2700	4850	0.164	0.0991
240	385	324	448	486	409	566	30	34	1.70	0.50	4 X 0.80	1.88	40	2550	5400	2.50	2.04	44	3550	6350	0.125	0.0754
300	432	364	513	541	456	644	30	34	1.80	0.60	4 X 0.80	2.04	43	3000	6550	2.50	2.20	47	4100	7650	0.100	0.0601
400	487	412	593	602	508	734	53	53	2.00	0.60	4 X 0.80	2.36	49	4000	8300	2.50	2.36	52	4950	9500	0.0778	0.0470

Technical Details :

Three Core, Aluminium / Copper Conductor, XLPE Insulated, Unarmoured Cables 1100 V (1.1 KV)

Cable Code : **A2XY / 2XY**

Conductor Material : Aluminium / Copper as per Class - 1 & 2 of IS: 8130
Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
 For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular
Insulation Material : **XLPE (Cross linked polyethylene)**; **Colour** : Red, Yellow & Blue
Outer Sheath : PVC Type ST-2 as per IS: 5831; Options : **FR Type / FRLS Type**
Colour of Outer Sheath : Black or any other Colour as per requirement



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(Generally conforming to 7098 Part - 1)

Three Core } XLPE



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART-6)						Minimum No. of Strand in Conductor		Nominal Thickness of Insulation	Nominal Inner Sheath Thickness	Nominal Outer Sheath Thickness	Approx. overall Diameter of Cable	Approx. Weight of Cable		Max. Conductor D.C. Resistance at 20°C	
	For Aluminium Conductor			For Copper Conductor									with Aluminium Conductor	with Copper Conductor		
	Ground	Duct	Air	Ground	Duct	Air	Alu.	Copper					Alu.	Copper		
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
1.50	22	18	19	26	22	23	1/3	1/3	0.70	0.30	1.80	10.40	130	150	18.1	12.1
2.50	27	23	24	34	29	30	1/3	1/3	0.70	0.30	1.80	11.10	150	190	12.1	7.41
4	35	30	32	45	38	41	1/3	1/3	0.70	0.30	1.80	13	200	280	7.41	4.61
6	46	38	42	56	47	52	1/3	1/3	0.70	0.30	1.80	14	250	360	4.61	3.08
10	57	48	54	74	62	70	1/7	6	0.70	0.30	1.80	16	310	510	3.08	1.83
16	74	61	69	95	79	89	6	6	0.70	0.30	1.80	17	350	650	1.91	1.15
25	95	79	93	122	102	119	6	6	0.90	0.30	2.00	20	500	950	1.2	0.727
35	114	94	114	146	122	147	6	6	0.90	0.30	2.00	22	600	1250	0.868	0.524
50	134	112	138	173	144	179	6	6	1.00	0.30	2.00	24	800	1600	0.641	0.387
70	164	137	175	212	177	226	12	12	1.10	0.40	2.20	28	1050	2250	0.443	0.268
95	197	164	216	254	212	279	15	15	1.10	0.40	2.20	31	1300	3000	0.32	0.193
120	223	187	249	287	240	320	15	18	1.20	0.40	2.20	34	1600	3700	0.253	0.153
150	249	209	284	321	269	365	15	18	1.40	0.50	2.40	38	1950	4550	0.206	0.124
185	282	238	329	362	304	422	30	30	1.60	0.50	2.60	42	2450	5650	0.164	0.0991
240	327	276	392	418	352	500	30	34	1.70	0.60	2.80	47	3100	7350	0.125	0.0754
300	369	312	452	469	396	574	30	34	1.80	0.60	3.00	52	3800	9100	0.100	0.0601
400	420	356	526	528	447	662	53	53	2.00	0.70	3.20	58	4750	11550	0.0778	0.0470

Technical Details :

Three Core, Aluminium / Copper Conductor, XLPE Insulated, Armoured Cables 1100 V (1.1 KV)

Cable Code : **A2XFY / 2XFY, A2XWY / 2XWY**

Conductor Material : Aluminium / Copper as per Class - 1 & 2 of IS: 8130

Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular

Insulation Material : **XLPE (Cross linked polyethylene)**; Colour : Red, Yellow & Blue

Inner Sheath : PVC Type ST-2 as per IS: 5831; Options : **FR Type / FRLS Type**

Armouring : Single Layer of Galvanized Steel Round Wire / Flat Strip"

Outer Sheath : PVC Type ST-2 as per IS: 5831; Options : **FR Type / FRLS Type**

Colour of Outer Sheath : Black or any other Colour as per requirement



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ARMoured CABLES

(Generally conforming to 7098 Part - 1)

**Three
Core** } **XLPE**



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART-6)						Minimum No. of Strand in Conductor		Nominal Thickness of Insulation	Minimum Inner Sheath Thickness	Flat Strip Armoured (A2XFY / 2XFY)					Round Wire Armoured (A2XWY / 2XWY)					Max. Conductor D.C. Resistance at 20°C	
	For Alu. Conductor			For Cu. Conductor							Nominal Armour Strip Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable		Nominal Armour Round Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable			
	Ground	Duct	Air	Ground	Duct	Air	Alu.	Copper						with Aluminium Conductor	with Copper Conductor				with Aluminium Conductor	with Copper Conductor		
														Alu.	Copper				kg / km	kg / km	kg / km	kg / km
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	mm	mm	kg / km	kg / km	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
1.5	22	18	19	26	22	23	1/3	1/3	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.24	12	360	400	18.1	12.1
2.5	27	23	24	34	29	30	1/3	1/3	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.24	12.8	380	450	12.1	7.41
4	35	30	32	45	38	41	1/3	1/3	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.24	15	400	490	7.41	4.61
6	46	38	42	56	47	52	1/3	1/3	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.24	16	460	580	4.61	3.08
10	57	48	54	74	62	70	1/7	6	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.24	17	540	750	3.08	1.83
16	74	61	69	95	79	89	6	6	0.70	0.30	4 X 0.80	1.24	18	550.00	850.00	1.60	1.40	20	700	1000	1.91	1.15
25	95	79	93	122	102	119	6	6	0.90	0.30	4 X 0.80	1.40	20	700.00	1150.00	1.60	1.40	22	900	1350	1.2	0.727
35	114	94	114	146	122	147	6	6	0.90	0.30	4 X 0.80	1.40	22	850.00	1450.00	1.60	1.40	24	1050	1700	0.868	0.524
50	134	112	138	173	144	179	6	6	1.00	0.30	4 X 0.80	1.40	25	1000.00	1850.00	1.60	1.56	27	1300	2100	0.641	0.387
70	164	137	175	212	177	226	12	12	1.10	0.40	4 X 0.80	1.56	29	1350.00	2550.00	2.00	1.56	31	1800	3000	0.443	0.268
95	197	164	216	254	212	279	15	15	1.10	0.40	4 X 0.80	1.56	31	1600	3300	2.00	1.56	34	2150	3800	0.32	0.193
120	223	187	249	287	240	320	15	18	1.20	0.40	4 X 0.80	1.53	34	1900	4000	2.00	1.72	37	2550	4650	0.253	0.153
150	249	209	284	321	269	365	15	18	1.40	0.50	4 X 0.80	1.72	38	2350	4950	2.00	1.88	41	3000	5600	0.206	0.124
185	282	238	329	362	304	422	30	30	1.60	0.50	4 X 0.80	1.88	42	2850	6050	2.50	2.01	46	3950	7150	0.164	0.0991
240	327	276	392	418	352	500	30	34	1.70	0.60	4 X 0.80	2.04	47	3500	7750	2.50	2.2	51	4800	9000	0.125	0.0754
300	369	312	452	469	396	574	30	34	1.80	0.60	4 X 0.80	2.20	52	4250	9550	2.50	2.36	56	5600	10900	0.100	0.0601
400	420	356	526	528	447	662	53	53	2.00	0.70	4 X 0.80	2.52	59	5350	12250	3.15	2.68	64	7450	14200	0.0778	0.0470

Technical Details :



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UNARMoured CABLES

(Generally conforming to 7098 Part - 1)

Three & Half Core, Aluminium / Copper Conductor, XLPE Insulated, Unarmoured Cables 1100 V (1.1 KV)

Cable Code : **A2XY / 2XY**

- Conductor Material** : Aluminium / Copper as per Class - 1 & 2 of IS: 8130
Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
 For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular
Insulation Material : **XLPE (Cross linked polyethylene)**; **Colour** : Red, Yellow & Blue
Outer Sheath : PVC Type ST-2 as per IS: 5831; Options : **FR Type / FRLS Type**
Colour of Outer Sheath : Black or any other Colour as per requirement

**Three
& Half
Core** } **XLPE**



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART-6)						Minimum No.of Strand in Conductor		Nominal Thickness of Insulation	Nominal Inner Sheath Thickness	Nominal Outer Sheath Thickness	Approx. overall Diameter of Cable	Approx. Weight of Cable		Max.Conductor D.C.Resistance at 20°C	
	For Aluminium Conductor			For Copper Conductor									with Aluminium Conductor	with Copper Conductor		
	Ground	Duct	Air	Ground	Duct	Air	Alu.	Copper					Alu.	Copper		
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
3 X 25 + 16	95	79	93	122	102	119	6 / 6	6 / 6	0.90 / 0.70	0.30	2.00	21	600	1150	1.20	0.727
3 X 35 + 16	114	94	114	146	122	147	6 / 6	6 / 6	0.90 / 0.70	0.30	2.00	24	700	1400	0.868	0.524
3 X 50 + 25	134	112	138	173	144	179	6 / 6	6 / 6	1.00 / 0.90	0.30	2.00	26	900	1850	0.641	0.387
3 X 70 + 35	164	137	175	212	177	226	12 / 6	12 / 6	1.10 / 0.90	0.40	2.00	30	1200	2600	0.443	0.268
3 X 95 + 50	197	164	216	254	212	279	15 / 6	15 / 6	1.10 / 1.00	0.40	2.20	34	1500	3450	0.32	0.193
3 X 120 + 70	223	187	249	287	240	320	15 / 12	18 / 12	1.20 / 1.10	0.40	2.20	37	1800	4350	0.253	0.153
3 X 150 + 70	249	209	284	321	269	365	15 / 12	18 / 12	1.40 / 1.10	0.50	2.40	41	2250	5250	0.206	0.1240
3X 185 + 95	282	238	329	362	304	422	30 / 15	30 / 15	1.60 / 1.10	0.50	2.60	46	2800	6600	0.164	0.0991
3 X 240 + 120	327	276	392	418	352	500	30 / 15	34 / 18	1.70 / 1.20	0.60	2.80	50	3550	8500	0.125	0.0754
3 X 300 + 150	369	312	452	469	396	574	30 / 15	34 / 18	1.80 / 1.40	0.60	3.00	55	4300	10500	0.100	0.0601
3 X 400 + 185	420	356	526	528	447	662	53 / 30	53 / 30	2.00 / 1.60	0.70	3.40	62	5450	13350	0.0778	0.0470

Technical Details :



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ARMoured CABLES

(Generally conforming to 7098 Part - 1)

Three & Half Core, Aluminium / Copper Conductor, XLPE Insulated, Armoured Cables 1100 V (1.1 KV)

Cable Code : A2XFY / 2XFY, A2XWY / 2XWY

- Conductor Material** : Aluminium / Copper as per Class - 1 & 2 of IS: 8130
- Shape of Conductor** : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular
- Insulation Material** : **XLPE (Cross linked polyethylene)**; Colour : Red, Yellow, Blue & Black
- Inner Sheath** : PVC Type ST-2 as per IS: 5831; Options : **FR Type / FRLS Type**
- Armouring** : Single Layer of Galvanized Steel Round Wire / Flat Strip
- Outer Sheath** : PVC Type ST-2 as per IS: 5831; Options : **FR Type / FRLS Type**
- Colour of Outer Sheath** : Black or any other Colour as per requirement

**Three
& Half
Core** } **XLPE**



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART-6)						Minimum No.of Strand in Conductor		Nominal Thickness of Insulation	Minimum Inner Sheath Thickness	Flat Strip Armoured (A2XFY / 2XFY)					Round Wire Armoured (A2XWY / 2XWY)						Max.Conductor D.C.Resistance at 20°C	
	For Alu. Conductor			For Cu. Conductor							Nominal Armour Strip Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable		Nominal Armour Round Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable				
	Ground	Duct	Air	Ground	Duct	Air	Alu.	Copper						with Aluminium Conductor	with Copper Conductor				with Aluminium Conductor	with Copper Conductor			
														Amps	Amps				Amps	Amps	Amps	Amps	Nos.
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	mm	mm	kg / km	kg / km	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km	
3 X 25 + 16	95	79	93	122	102	119	6 / 6	6 / 6	0.90 / 0.70	0.30	4 X 0.80	1.40	23.00	800.00	1350	1.60	1.40	23	1000	1550	1.20	0.727	
3 X 35 + 16	114	94	114	146	122	147	6 / 6	6 / 6	0.90 / 0.70	0.30	4 X 0.80	1.40	24.00	950.00	1650	1.60	1.40	26	1200	1900	0.868	0.524	
3 X 50 + 25	134	112	138	173	144	179	6 / 6	6 / 6	1.00 / 0.90	0.30	4 X 0.80	1.40	27.00	1150.00	2150	1.60	1.56	28	1450	2400	0.641	0.387	
3 X 70 + 35	164	137	175	212	177	226	12 / 6	12 / 6	1.10 / 0.90	0.40	4 X 0.80	1.56	31	1500.00	2850	2.00	1.56	33	2000	3400	0.443	0.268	
3 X 95 + 50	197	164	216	254	212	279	15 / 6	15 / 6	1.10 / 0.90	0.40	4 X 0.80	1.56	34	1850.00	3800	2.00	1.56	36	2400	4350	0.32	0.193	
3 X 120 + 70	223	187	249	287	240	320	15 / 12	18 / 12	1.20 / 1.10	0.40	4 X 0.80	1.72	38	2250.00	4750	2.00	1.72	40	2900	5400	0.253	0.153	
3 X 150 + 70	249	209	284	321	269	365	15 / 12	18 / 12	1.40 / 1.10	0.50	4 X 0.80	1.72	41	2650.00	5600	2.50	1.88	44	3400	6400	0.206	0.1240	
3X 185 + 95	282	238	329	362	304	422	30 / 15	30 / 15	1.60 / 1.10	0.50	4 X 0.80	1.88	46	3200.00	7000	2.50	2.04	50	4450	8200	0.164	0.0991	
3 X 240 + 120	327	276	392	418	352	500	30 / 15	34 / 18	1.70 / 1.20	0.60	4 X 0.80	2.04	50	4000	8900	3.15	2.20	54	5250	10200	0.125	0.0754	
3 X 300 + 150	369	312	452	469	396	574	30 / 15	34 / 18	1.80 / 1.40	0.60	4 X 0.80	2.20	55	4800	11000	3.15	2.36	59	6200	12400	0.100	0.0601	
3 X 400 + 185	420	356	526	528	447	662	53 / 30	53 / 30	2.00 / 1.60	0.70	4 X 0.80	2.52	62	5950	13850	4.00	2.68t	66	8200	16050	0.0778	0.0470	

Technical Details :

Four Core, Aluminium / Copper Conductor, XLPE Insulated, Unarmoured Cables 1100 V (1.1 KV)

Cable Code : **A2XY / 2XY**

Conductor Material : Aluminium / Copper as per Class - 1 & 2 of IS: 8130

Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular

Insulation Material : **XLPE (Cross linked polyethylene)**; **Colour** : Red, Yellow, Blue & Black

Outer Sheath : PVC Type ST-2 as per IS: 5831; Options : **FR Type / FRLS Type**

Colour of Outer Sheath : Black or any other Colour as per requirement



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Four
Core } XLPE



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART-6)						Minimum No.of Strand in Conductor		Nominal Thickness of Insulation	Nominal Inner Sheath Thickness	Nominal Outer Sheath Thickness	Approx. overall Diameter of Cable	Approx. Weight of Cable		Max.Conductor D.C.Resistance at 20°C	
	For Aluminium Conductor			For Copper Conductor									with Aluminium Conductor	with Copper Conductor		
	Ground	Duct	Air	Ground	Duct	Air	Alu.	Copper							Alu.	Copper
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
1.50	22	18	19	26	22	23	1/3	1/3	0.70	0.30	1.80	11	150	180	18.1	12.1
2.50	27	23	24	34	29	30	1/3	1/3	0.70	0.30	1.80	12	170	230	12.1	7.41
4	35	30	32	45	38	41	1/3	1/3	0.70	0.30	1.80	14	230	340	7.41	4.61
6	46	38	42	56	47	52	1/3	1/3	0.70	0.30	1.80	15	290	430	4.61	3.08
10	57	48	54	74	62	70	1/7	6	0.70	0.30	1.80	17	360	630	3.08	1.83
16	74	61	69	95	79	89	6	6	0.70	0.30	1.80	19	450	800	1.91	1.15
25	95	79	93	122	102	119	6	6	0.90	0.30	2.00	22	600	1200	1.2	0.727
35	114	94	114	146	122	147	6	6	0.90	0.30	2.00	24	750	1600	0.868	0.524
50	134	112	138	173	144	179	6	6	1.00	0.30	2.00	27	950	2000	0.641	0.387
70	164	137	175	212	177	226	12	12	1.10	0.40	2.20	31	1300	2900	0.443	0.268
95	197	164	216	254	212	279	15	15	1.10	0.40	2.20	35	1700	3900	0.32	0.193
120	223	187	249	287	240	320	15	18	1.20	0.50	2.40	39	2100	4900	0.253	0.153
150	249	209	284	321	269	365	15	18	1.40	0.50	2.60	43	2550	6000	0.206	0.124
185	282	238	329	362	304	422	30	30	1.60	0.50	2.80	48	3150	7450	0.164	0.0991
240	327	276	392	418	352	500	30	34	1.70	0.60	3.00	54	4000	9700	0.125	0.0754
300	369	312	452	469	396	574	30	34	1.80	0.70	3.20	61	4950	12050	0.100	0.0601
400	420	356	526	528	447	662	53	53	2.00	0.70	3.60	68	6250	15350	0.0778	0.0470

Technical Details :

Four Core, Aluminium / Copper Conductor, XLPE Insulated, Armoured Cables 1100 V (1.1 KV)

Cable Code : **A2XFY / 2XFY, A2XWY / 2XWY**

Conductor Material : Aluminium / Copper as per Class - 1 & 2 of IS: 8130

Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular

Insulation Material : **XLPE (Cross linked polyethylene)**; Colour : Red, Yellow, Blue & Black

Inner Sheath : PVC Type ST-2 as per IS: 5831; Options : **FR Type / FRLS Type**

Armouring : Single Layer of Galvanized Steel Round Wire / Flat Strip"

Outer Sheath : PVC Type ST-2 as per IS: 5831; Options : **FR Type / FRLS Type**

Colour of Outer Sheath : Black or any other Colour as per requirement



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Four Core } **XLPE**



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART-6)						Minimum No. of Strand in Conductor		Nominal Thickness of Insulation	Minimum Inner Sheath Thickness	Flat Strip Armoured (A2XFY / 2XFY)					Round Wire Armoured (A2XWY / 2XWY)					Max. Conductor D.C. Resistance at 20°C	
	For Alu. Conductor			For Cu. Conductor							Nominal Armour Strip Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable		Nominal Armour Round Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable			
	Ground	Duct	Air	Ground	Duct	Air								Alu.	Copper				with Aluminium Conductor	with Copper Conductor	with Aluminium Conductor	with Copper Conductor
	Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.			Nos.	mm	mm	mm	mm	mm	kg / km	kg / km	mm	mm	mm	kg / km
1.5	22	18	19	26	22	23	1/3	1/3	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.24	12.90	400	450	18.1	12.1
2.5	27	23	24	34	29	30	1/3	1/3	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.24	13.60	420	520	12.1	7.41
4	35	30	32	45	38	41	1/3	1/3	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.24	16	440	560	7.41	4.61
6	46	38	42	56	47	52	1/3	1/3	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.24	17	520	670	4.61	3.08
10	57	48	54	74	62	70	1/7	6	0.70	0.30	NA	NA	NA	NA	NA	1.40	1.4	19	620	900	3.08	1.83
16	74	61	69	95	79	89	6	6	0.70	0.30	4 X 0.80	1.40	20	650.00	1000.00	1.60	1.40	21	850	1200	1.91	1.15
25	95	79	93	122	102	119	6	6	0.90	0.30	4 X 0.80	1.40	22	850.00	1450.00	1.60	1.40	24	1100	1700	1.2	0.727
35	114	94	114	146	122	147	6	6	0.90	0.30	4 X 0.80	1.40	25	1000.00	1850.00	1.60	1.40	26	1300	2100	0.868	0.524
50	134	112	138	173	144	179	6	6	1.00	0.30	4 X 0.80	1.56	28	1300.00	2400.00	1.60	1.56	29	1550	2700	0.641	0.387
70	164	137	175	212	177	226	12	12	1.10	0.40	4 X 0.80	1.56	32	1650.00	3250.00	2.00	1.56	34	2200	3800	0.443	0.268
95	197	164	216	254	212	279	15	15	1.10	0.40	4 X 0.80	1.56	35	2000	4250	2.00	1.72	38	2700	4900	0.32	0.193
120	223	187	249	287	240	320	15	18	1.20	0.40	4 X 0.80	1.72	39	2500	5300	2.00	1.88	42	3200	6000	0.253	0.153
150	249	209	284	321	269	365	15	18	1.40	0.50	4 X 0.80	1.88	43	2950	6400	2.50	2.04	47	4100	7550	0.206	0.124
185	282	238	329	362	304	422	30	30	1.60	0.50	4 X 0.80	2.04	48	3600	7950	2.50	2.20	52	4850	9150	0.164	0.0991
240	327	276	392	418	352	500	30	34	1.70	0.60	4 X 0.80	2.20	54	4500	10200	2.50	2.36	58	5950	11600	0.125	0.0754
300	369	312	452	469	396	574	30	34	1.80	0.60	4 X 0.80	2.36	61	5500	12600	3.15	2.52	66	7750	14850	0.100	0.0601
400	420	356	526	528	447	662	53	53	2.00	0.70	4 X 0.80	2.68	68	6850	15900	3.15	2.84	73	9350	18400	0.0778	0.0470

Technical Details :



UNARMoured CABLES

(Generally conforming to 1554 Part - 1)

Single Core, Aluminium / Copper Conductor, PVC Insulated, Unarmoured Cables 1100 V (1.1 KV)

Cable Code : AYY / YY

- Conductor Material** : Aluminium / Copper as per Class - 1 & 2 of IS: 8130
- Shape of Conductor** : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular
- Insulation Material** : **PVC Type-A OR HR PVC Type-C as per IS: 5831**; Colour : Black
- Outer Sheath** : PVC Type ST-1 as per IS: 5831; **Options** : **PVC Type ST-2 / FR Type / FRLS Type**
- Colour of Outer Sheath** : Black or any other Colour as per requirement

Single Core } **PVC**



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART -II)						Minimum No. of Strand in Conductor		Nominal Thickness of Insulation	Nominal Outer Sheath Thickness	Approx. overall Diameter of Cable	Approx. Weight of Cable		Max.Conductor D.C.Resistance at 20°C	
	For Aluminium Conductor			For Copper Conductor								with Aluminium Conductor	with Copper Conductor		
	Ground	Duct	Air	Ground	Duct	Air	Alu.	Copper				Alu.	Copper		
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
4	36	33	32	46	42	43	1 / 3	1 / 3	0.70	1.80	8.00	80	100	7.41	4.61
6	44	42	41	57	54	54	1 / 3	1 / 3	0.70	1.80	9.00	90	120	4.61	3.08
10	59	56	56	75	72	72	1 / 7	6	0.70	1.80	10.00	110	170	3.08	1.83
16	75	71	72	94	92	92	6	6	0.70	1.80	10.00	150	250	1.91	1.15
25	97	93	99	125	120	125	6	6	0.90	1.80	12.00	200	350	1.2	0.727
35	120	110	155	150	140	155	6	6	0.90	1.80	13.00	250	450	0.868	0.524
50	145	130	150	180	165	190	6	6	1.00	1.80	15.00	300	600	0.641	0.387
70	170	155	185	220	200	235	12	12	1.10	1.80	16.00	400	800	0.443	0.268
95	205	180	215	265	230	275	15	15	1.10	1.80	18.00	500	1050	0.32	0.193
120	230	200	240	300	255	310	15	18	1.20	2.00	20.00	600	1300	0.253	0.153
150	265	220	270	340	280	345	15	18	1.40	2.00	22.00	700	1600	0.206	0.124
185	300	240	305	380	305	390	30	30	1.60	2.00	24.00	850	1950	0.164	0.0991
240	335	270	350	420	340	445	30	34	1.70	2.00	27.00	1100	2500	0.125	0.0754
300	370	295	395	465	370	500	30	34	1.80	2.00	30.00	1300	3100	0.100	0.0601
400	410	335	455	500	405	570	53	53	2.00	2.20	34.00	1700	3950	0.0778	0.0470

Technical Details :



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ARMoured CABLES

(Generally conforming to IS : 1554 Part - 1)

Single Core, Aluminium / Copper Conductor, PVC Insulated, Armoured Cables 1100 V (1.1 KV)

Cable Code : AYFY / YFY, AYWY / YWY

Conductor Material : Aluminium / Copper as per Class - 1 & 2 of IS: 8130

Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular

Insulation Material : **PVC Type-A OR HR PVC Type-C as per IS: 5831; Colour : Black**

Inner Sheath : PVC Type ST-1 as per IS: 5831; **Options : PVC Type ST-2 / FR Type / FRLS Type**

Armouring : Single Layer of Aluminium Round Wire / Flat Strip"

Outer Sheath : PVC Type ST-1 as per IS: 5831; **Options : PVC Type ST-2 / FR Type / FRLS Type**

Colour of Outer Sheath : Black or any other Colour as per requirement

Single
Core

PVC



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART -II)						Minimum No. of Strand in Conductor		Nominal Thickness of Insulation	Flat Strip Armoured (AYFY / YFY)					Round Wire Armoured (AYWY / YWY)					Max. Conductor D.C. Resistance at 20°C	
	For Alu. Conductor			For Cu. Conductor						Nominal Armour Strip Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable		Nominal Armour Round Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable			
	Ground	Duct	Air	Ground	Duct	Air							with Aluminium Conductor	with Copper Conductor				with Aluminium Conductor	with Copper Conductor		
	Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Alu.		Copper	mm	mm	mm	mm	kg / km	kg / km	mm	mm	mm	kg / km	kg / km
4	36	33	32	46	42	43	1 / 3	1 / 3	1.30	NA	NA	NA	NA	NA	1.40	1.24	11	130	160	7.41	4.61
6	44	42	41	57	54	54	1 / 3	1 / 3	1.30	NA	NA	NA	NA	NA	1.40	1.24	12	150	190	4.61	3.08
10	59	56	56	75	72	72	1 / 7	6	1.30	NA	NA	NA	NA	NA	1.40	1.24	13	170	240	3.08	1.83
16	75	71	72	94	92	92	6	6	1.30	NA	NA	NA	NA	NA	1.40	1.24	13	250	300	1.91	1.15
25	97	93	99	125	120	125	6	6	1.50	NA	NA	NA	NA	NA	1.40	1.24	15	300	450	1.2	0.727
35	120	110	155	150	140	155	6	6	1.50	NA	NA	NA	NA	NA	1.40	1.24	16	350	550	0.868	0.524
50	145	130	150	180	165	190	6	6	1.70	NA	NA	NA	NA	NA	1.40	1.24	17	400	700	0.641	0.387
70	170	155	185	220	200	235	12	12	1.70	NA	NA	NA	NA	NA	1.40	1.40	19	500	900	0.443	0.268
95	205	180	215	265	230	275	15	15	1.90	4 X 0.80	1.40	20	600	1150	1.56	1.40	22	700	1250	0.32	0.193
120	230	200	240	300	255	310	15	18	1.90	4 X 0.80	1.40	22	700	1400	1.56	1.40	23	800	1450	0.253	0.153
150	265	220	270	340	280	345	15	18	2.10	4 X 0.80	1.40	23	800	1700	1.56	1.40	25	900	1750	0.206	0.124
185	300	240	305	380	305	390	30	30	2.30	4 X 0.80	1.40	25	1000	2050	1.72	1.40	27	1050	2150	0.164	0.0991
240	335	270	350	420	340	445	30	34	2.50	4 X 0.80	1.40	28	1200	2600	1.88	1.56	30	1350	2750	0.125	0.0754
300	370	295	395	465	370	500	30	34	2.70	4 X 0.80	1.56	31	1500	3250	1.88	1.56	33	1600	3350	0.100	0.0601
400	410	335	455	500	405	570	53	53	3.00	4 X 0.80	1.56	35	1850	4100	2.04	1.56	38	2050	4300	0.0778	0.0470

Technical Details :

Two Core, Aluminium / Copper Conductor, PVC Insulated, Unarmoured Cables 1100 V (1.1 KV)

Cable Code : AYY / YY

Conductor Material : Aluminium / Copper as per Class - 1 & 2 of IS: 8130

Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular

Insulation Material : **PVC Type-A OR HR PVC Type-C as per IS: 5831**; Colour : Red & Black

Outer Sheath : PVC Type ST-1 as per IS: 5831; **Options** : **PVC Type ST-2 / FR Type / FRLS Type**

Colour of Outer Sheath : Black or any other Colour as per requirement



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(Generally conforming to 1554 Part - 1)

Two
Core } **PVC**



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART -II)						Minimum No.of Strand in Conductor		Nominal Thickness of Insulation	Nominal Inner Sheath Thickness	Nominal Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable		Max.Conductor D.C.Resistance at 20°C	
	For Aluminium Conductor			For Copper Conductor									with Aluminium Conductor	with Copper Conductor		
	Ground	Duct	Air	Ground	Duct	Air	Alu.	Copper					Aluminium	Copper		
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
1.5	18	16	16	23	20	20	1/3	1/3	0.80	0.30	1.80	10.40	130	150	18.1	12.1
1.5	25	21	21	32	27	27	1/3	1/3	0.90	0.30	1.80	11.50	160	190	12.1	7.41
4	32	27	27	41	35	35	1/3	1/3	1.00	0.30	1.80	13	230	280	7.41	4.61
6	40	34	35	50	44	45	1/3	1/3	1.00	0.30	1.80	15	270	350	4.61	3.08
10	55	45	47	70	58	60	1/7	6	1.00	0.30	1.80	16	330	480	3.08	1.83
16	70	58	59	90	75	78	6	6	1.00	0.30	1.80	16	350	500	1.91	1.15
25	90	76	78	115	97	105	6	6	1.20	0.30	2.00	19	450	750	1.2	0.727
35	110	92	99	140	120	125	6	6	1.20	0.30	2.00	20	550	950	0.868	0.524
50	135	115	125	165	145	155	6	6	1.40	0.30	2.00	23	700	1250	0.641	0.387
70	160	140	150	205	180	195	12	12	1.40	0.30	2.00	25	850	1650	0.443	0.268
95	190	170	185	240	215	230	15	15	1.60	0.40	2.20	29	1150	2250	0.32	0.193
120	210	190	210	275	235	265	15	18	1.60	0.40	2.20	31	1300	2700	0.253	0.153
150	240	210	240	310	270	305	15	18	1.80	0.40	2.40	3	1600	3300	0.206	0.124
185	275	240	275	350	300	350	30	30	2.00	0.50	2.40	33	1900	4100	0.164	0.0991
240	320	275	325	405	345	410	30	34	2.20	0.50	2.60	36	2450	5250	0.125	0.0754
300	355	305	365	450	385	465	30	34	2.40	0.60	2.80	42	2950	6500	0.100	0.0601
400	385	345	420	490	425	530	53	53	2.60	0.70	3.20	45	3800	8300	0.0778	0.0470

Technical Details :

Two Core, Aluminium / Copper Conductor, PVC Insulated, Armoured Cables 1100 V (1.1 KV)

Cable Code : **AYFY / YFY, AYWY / YWY**

Conductor Material : Aluminium / Copper as per Class - 1 & 2 of IS: 8130

Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular

Insulation Material : **PVC Type-A OR HR PVC Type-C as per IS: 5831; Colour** : Red & Black

Inner Sheath : PVC Type ST-1 as per IS: 5831; **Options** : **PVC Type ST-2 / FR Type / FRLS Type**

Armouring : Single Layer of Aluminium Round Wire / Flat Strip"

Outer Sheath : PVC Type ST-1 as per IS: 5831; **Options** : **PVC Type ST-2 / FR Type / FRLS Type**

Colour of Outer Sheath : Black or any other Colour as per requirement



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ARMoured CABLES

(Generally conforming to IS : 1554 Part - 1)

Two
Core

PVC



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART-II)						Minimum No. of Strand in Conductor		Nominal Thickness of Insulation	Minimum Inner Sheath Thickness	Flat Strip Armoured (AYFY / YFY)					Round Wire Armoured (AYWY / YWY)					Max. Conductor D.C. Resistance at 20°C	
	For Alu. Conductor			For Cu. Conductor							Nominal Armour Strip Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable		Nominal Armour Round Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable			
	Ground	Duct	Air	Ground	Duct	Air	Alu.	Copper						with Aluminium Conductor	with Copper Conductor				with Aluminium Conductor	with Copper Conductor		
														Sq.mm	Amps				Amps	Amps	Amps	Amps
1.5	18	16	16	23	20	20	1/3	1/3	1.10	0.30	NA	NA	NA	NA	NA	1.40	1.24	13.20	450	460	18.1	12.1
2.5	25	21	21	32	27	27	1/3	1/3	1.20	0.30	NA	NA	NA	NA	NA	1.40	1.24	14.20	480	510	12.1	7.41
4	32	27	27	41	35	35	1/3	1/3	1.30	0.30	NA	NA	NA	NA	NA	1.40	1.24	15	460	520	7.41	4.61
6	40	34	35	50	44	45	1/3	1/3	1.30	0.30	NA	NA	NA	NA	NA	1.40	1.24	16	530	620	4.61	3.08
10	55	45	47	70	58	60	1/7	6	1.30	0.30	NA	NA	NA	NA	NA	1.40	1.24	18	620	780	3.08	1.83
16	70	58	59	90	75	78	6	6	1.30	0.30	4 X 0.80	1.40	17.00	500.00	700.00	1.60	1.40	18	700	850	1.91	1.15
25	90	76	78	115	97	105	6	6	1.50	0.30	4 X 0.80	1.40	19.00	600.00	950.00	1.60	1.40	21	850	1150	1.2	0.727
35	110	92	99	140	120	125	6	6	1.50	0.30	4 X 0.80	1.40	21.00	750.00	1150.00	1.60	1.40	22	950	1350	0.868	0.524
50	135	115	125	165	145	155	6	6	1.70	0.30	4 X 0.80	1.40	23.00	900.00	1450.00	1.60	1.56	25	1200	1750	0.641	0.387
70	160	140	150	205	180	195	12	12	1.70	0.30	4 X 0.80	1.56	26.00	1100.00	1900.00	1.60	1.56	27	1400	2200	0.443	0.268
95	190	170	185	240	215	230	15	15	1.90	0.40	4 X 0.80	1.56	29	1400	2500	2.00	1.56	32	1900	3000	0.32	0.193
120	210	190	210	275	235	265	15	18	1.90	0.40	4 X 0.80	1.56	31	1600	3000	2.00	1.72	34	2150	3550	0.253	0.153
150	240	210	240	310	270	305	15	18	2.10	0.40	4 X 0.80	1.72	34	1900	3650	2.00	1.72	36	2500	4200	0.206	0.124
185	275	240	275	350	300	350	30	30	2.30	0.50	4 X 0.80	1.88	37	2300	4450	2.00	1.88	40	2950	5100	0.164	0.0991
240	320	275	325	405	345	410	30	34	2.50	0.50	4 X 0.80	2.04	42	2850	5700	2.50	2.04	46	3850	6700	0.125	0.0754
300	355	305	365	450	385	465	30	34	2.70	0.60	4 X 0.80	2.20	46	3400	6950	2.50	2.2	49	4550	8100	0.100	0.0601
400	385	345	420	490	425	530	53	53	3.00	0.70	4 X 0.80	2.36	51	4200	8750	3.15	2.52	56	6050	10600	0.0778	0.0470



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UNARMoured CABLES

(Generally conforming to 1554 Part - 1)

Technical Details :

Three Core, Aluminium / Copper Conductor, PVC Insulated, Unarmoured Cables 1100 V (1.1 KV)

Cable Code : **AYY / YY**

Conductor Material : Aluminium / Copper as per Class - 1 & 2 of IS: 8130

Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular

Insulation Material : **PVC Type-A OR HR PVC Type-C as per IS: 5831**; Colour : Red, Yellow & Blue

Outer Sheath : PVC Type ST-1 as per IS: 5831; **Options** : **PVC Type ST-2 / FR Type / FRLS Type**

Colour of Outer Sheath : Black or any other Colour as per requirement

**Three
Core** } **PVC**



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART -II)						Minimum No.of Strand in Conductor		Nominal Thickness of Insulation	Nominal Inner Sheath Thickness	Nominal Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable		Max.Conductor D.C.Resistance at 20°C	
	For Aluminium Conductor			For Copper Conductor									with Aluminium Conductor	with Copper Conductor		
	Ground	Duct	Air	Ground	Duct	Air	Alu.	Copper							Aluminium	Copper
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
1.5	16	14	13	21	17	17	1/3	1/3	0.80	0.30	1.80	12.10	150	170	18.1	12.1
1.5	21	18	18	27	24	24	1/3	1/3	0.90	0.30	1.80	13.30	180	220	12.1	7.41
4	36	30	30	28	23	23	1/3	1/3	1.00	0.30	1.80	14	250	330	7.41	4.61
6	35	30	30	45	38	39	1/3	1/3	1.00	0.30	1.80	15	310	420	4.61	3.08
10	46	39	40	60	50	52	1/7	6	1.00	0.30	1.80	17	370	580	3.08	1.83
16	60	50	51	77	64	66	6	6	1.00	0.30	1.80	18	450	700	1.91	1.15
25	76	63	70	99	81	90	6	6	1.20	0.30	2.00	21	600	1050	1.2	0.727
35	92	77	86	120	99	110	6	6	1.20	0.30	2.00	23	700	1350	0.868	0.524
50	110	95	105	145	125	135	6	6	1.40	0.30	2.00	26	900	1750	0.641	0.387
70	135	115	130	175	150	165	12	12	1.40	0.30	2.20	29	1200	2400	0.443	0.268
95	165	140	155	210	175	200	15	15	1.60	0.40	2.20	33	1500	3200	0.32	0.193
120	185	155	180	240	195	230	15	18	1.60	0.40	2.20	36	1800	3900	0.253	0.153
150	210	175	205	270	225	265	15	18	1.80	0.40	2.40	40	2200	4800	0.206	0.124
185	235	200	240	300	255	305	30	30	2.00	0.50	2.60	43	2700	5950	0.164	0.0991
240	275	235	280	345	295	355	30	34	2.20	0.50	2.80	49	3550	7750	0.125	0.0754
300	305	260	315	385	335	400	30	34	2.40	0.60	3.00	54	4200	9600	0.100	0.0601
400	335	290	375	425	360	455	53	53	2.60	0.70	3.40	61	5350	12200	0.0778	0.0470

Technical Details :

Three Core, Aluminium / Copper Conductor, PVC Insulated, Armoured Cables 1100 V (1.1 KV)

Cable Code : AYFY / YFY, AYWY / YWY

Conductor Material : Aluminium / Copper as per Class - 1 & 2 of IS: 8130

Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular

Insulation Material : **PVC Type-A OR HR PVC Type-C as per IS: 5831; Colour** : Red, Yellow & Blue

Inner Sheath : PVC Type ST-1 as per IS: 5831; **Options** : **PVC Type ST-2 / FR Type / FRLS Type**

Armouring : Single Layer of Aluminium Round Wire / Flat Strip"

Outer Sheath : PVC Type ST-1 as per IS: 5831; **Options** : **PVC Type ST-2 / FR Type / FRLS Type**

Colour of Outer Sheath : Black or any other Colour as per requirement



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ARMoured CABLES

(Generally conforming to IS : 1554 Part - 1)

Three
Core } **PVC**



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART -II)						Minimum No. of Strand in Conductor		Nominal Thickness of Insulation	Minimum Inner Sheath Thickness	Flat Strip Armoured (AYFY / YFY)					Round Wire Armoured (AYWY / YWY)					Max. Conductor D.C. Resistance at 20°C	
	For Alu. Conductor			For Cu. Conductor							Nominal Armour Strip Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable		Nominal Armour Round Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable			
	Ground	Duct	Air	Ground	Duct	Air	Alu.	Copper						with Aluminium Conductor	with Copper Conductor				with Aluminium Conductor	with Copper Conductor		
																					Alu.	Copper
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	mm	mm	kg / km	kg / km	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
1.5	16	14	13	21	17	17	1/3	1/3	1.10	0.30	NA	NA	NA	NA	NA	1.40	1.24	13.80	440	500	18.1	12.1
2.5	21	18	18	27	24	24	1/3	1/3	1.20	0.30	NA	NA	NA	NA	NA	1.40	1.24	14.90	460	520	12.1	7.41
4	36	30	30	28	23	23	1/3	1/3	1.00	0.30	NA	NA	NA	NA	NA	1.40	1.24	16	460	540	7.41	4.61
6	35	30	30	45	38	39	1/3	1/3	1.00	0.30	NA	NA	NA	NA	NA	1.40	1.24	17	530	650	4.61	3.08
10	46	39	40	60	50	52	1/7	6	1.00	0.30	NA	NA	NA	NA	NA	1.40	1.4	19	620	840	3.08	1.83
16	60	50	51	77	64	66	6	6	1.00	0.30	4 X 0.80	1.40	19	600.00	900.00	1.60	1.40	21	850	1100	1.91	1.15
25	76	63	70	99	81	90	6	6	1.20	0.30	4 X 0.80	1.40	22	800.00	1250.00	1.60	1.40	23	1050	1500	1.2	0.727
35	92	77	86	120	99	110	6	6	1.20	0.30	4 X 0.80	1.40	23	950.00	1550.00	1.60	1.40	25	1200	1800	0.868	0.524
50	110	95	105	145	125	135	6	6	1.40	0.30	4 X 0.80	1.56	27	1200.00	2050.00	1.60	1.56	28	1500	2300	0.641	0.387
70	135	115	130	175	150	165	12	12	1.40	0.40	4 X 0.80	1.56	30	1500.00	2700.00	1.60	1.56	32	2000	3200	0.443	0.268
95	165	140	155	210	175	200	15	15	1.60	0.40	4 X 0.80	1.56	33	1850	3550	2.00	1.72	36	2450	4150	0.32	0.193
120	185	155	180	240	195	230	15	18	1.60	0.40	4 X 0.80	1.72	36	2200	4300	2.00	1.72	39	2800	4900	0.253	0.153
150	210	175	205	270	225	265	15	18	1.80	0.50	4 X 0.80	1.88	40	2650	5250	2.00	1.88	43	3350	5900	0.206	0.124
185	235	200	240	300	255	305	30	30	2.00	0.50	4 X 0.80	1.88	44	3150	6400	2.00	2.04	48	4300	7500	0.164	0.0991
240	275	235	280	345	295	355	30	34	2.20	0.60	4 X 0.80	2.20	50	4000	8250	2.50	2.2	53	5250	9450	0.125	0.0754
300	305	260	315	385	335	400	30	34	2.40	0.60	4 X 0.80	2.36	55	4800	10150	2.50	2.36	58	6150	11450	0.100	0.0601
400	335	290	375	425	360	455	53	53	2.60	0.70	4 X 0.80	2.52	61	5950	12750	3.15	2.68	66	8200	14950	0.0778	0.0470

Technical Details :

Three & Half Core, Aluminium / Copper Conductor,
PVC Insulated, Unarmoured Cables 1100 V (1.1 KV)

Cable Code : **YYY / YY**

Conductor Material : Aluminium / Copper as per Class - 1 & 2 of IS: 8130
Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular
Insulation Material : **PVC Type-A OR HR PVC Type-C as per IS: 5831; Colour** : Red, Yellow & Blue
Outer Sheath : PVC Type ST-1 as per IS: 5831; **Options** : **PVC Type ST-2 / FR Type / FRLS Type**
Colour of Outer Sheath : Black or any other Colour as per requirement



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UNARMoured CABLES

(Generally conforming to 1554 Part - 1)

**Three & Half
Core**

PVC



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART -II)						Minimum No.of Strand in Conductor		Nominal Thickness of Insulation	Nominal Inner Sheath Thickness	Nominal Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable		Max.Conductor D.C.Resistance at 20°C	
	For Aluminium Conductor			For Copper Conductor									with Aluminium Conductor	with Copper Conductor		
	Ground	Duct	Air	Ground	Duct	Air	Alu.	Copper					Aluminium	Copper		
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
3 X 25 + 16	76	63	70	99	81	90	6 / 6	6 / 6	1.20 / 1.00	0.30	2.00	23	700	1250	1.20	0.727
3 X 35 + 16	92	77	86	120	99	110	6 / 6	6 / 6	1.20 / 1.00	0.30	2.00	25	800	1550	0.868	0.524
3 X 50 + 25	110	95	105	145	125	135	6 / 6	6 / 6	1.40 / 1.20	0.30	2.20	28	1050	2050	0.641	0.387
3 X 70 + 35	135	115	130	175	150	165	12 / 6	12 / 6	1.40 / 1.20	0.40	2.20	32	1400	2800	0.443	0.268
3 X 95 + 50	165	140	155	210	175	200	15 / 6	15 / 6	1.60 / 1.40	0.40	2.20	36	1800	3700	0.32	0.193
3 X 120 + 70	185	155	180	240	195	230	15 / 12	18 / 12	1.60 / 1.40	0.50	2.40	39	2200	4700	0.253	0.153
3 X 150 + 70	210	175	205	270	225	265	15 / 12	18 / 12	1.80 / 1.40	0.50	2.40	43	2550	5550	0.206	0.1240
3X 185 + 95	235	200	240	300	255	305	30 / 15	30 / 15	2.00 / 1.60	0.50	2.40	47	3150	6900	0.164	0.0991
3 X 240 + 120	275	235	280	345	295	355	30 / 15	34 / 18	2.20 / 1.60	0.60	3.00	53	4050	8950	0.125	0.0754
3 X 300 + 150	305	260	315	385	335	400	30 / 15	34 / 18	2.40 / 1.80	0.60	3.20	58	4900	11100	0.100	0.0601
3 X 400 + 185	335	290	375	425	360	455	53 / 30	53 / 30	2.60 / 2.00	0.70	3.40	64	6150	14000	0.0778	0.0470

Technical Details :



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ARMoured CABLES

(Generally conforming to IS : 1554 Part - 1)

Three & Half Core, Aluminium / Copper Conductor, PVC Insulated, Armoured Cables 1100 V (1.1 KV)

Cable Code : **AYFY / YFY, AYWY / YWY**

Conductor Material : Aluminium / Copper as per Class - 1 & 2 of IS: 8130

Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular

Insulation Material : **PVC Type-A OR HR PVC Type-C as per IS: 5831; Colour** : Red, Yellow & Blue

Inner Sheath : PVC Type ST-2 as per IS: 5831; **Options** : **PVC Type ST-2 / FR Type / FRLS Type**

Armouring : Single Layer of Aluminium Round Wire / Flat Strip"

Outer Sheath : PVC Type ST-2 as per IS: 5831; **Options** : **PVC Type ST-2 / FR Type / FRLS Type**

Colour of Outer Sheath : Black or any other Colour as per requirement

**Three & Half
Core**

PVC



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART-II)						Minimum No.of Strand in Conductor		Nominal Thickness of Insulation	Minimum Inner Sheath Thickness	Flat Strip Armoured (AYFY / YFY)					Round Wire Armoured (AYWY / YWY)					Max.Conductor D.C.Resistance at 20°C	
	For Alu. Conductor			For Cu. Conductor							Nominal Armour Strip Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable		Nominal Armour Round Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable			
	Ground	Duct	Air	Ground	Duct	Air	with Aluminium Conductor	with Copper Conductor						with Aluminium Conductor	with Copper Conductor							
																			Alu.	Copper	Alu.	Copper
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	mm	mm	kg / km	kg / km	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
3 X 25 + 16	76	63	70	99	81	90	6 / 6	6 / 6	1.20 / 1.00	0.30	4 X 0.80	1.40	23.00	900.00	1450	1.60	1.40	25	1150	1700	1.20	0.727
3 X 35 + 16	92	77	86	120	99	110	6 / 6	6 / 6	1.20 / 1.00	0.30	4 X 0.80	1.40	25.00	1050.00	1800	1.60	1.40	27	1350	2050	0.868	0.524
3 X 50 + 25	110	95	105	145	125	135	6 / 6	6 / 6	1.40 / 1.20	0.30	4 X 0.80	1.56	29.00	1350.00	2350	2.00	1.56	30	1650	2600	0.641	0.387
3 X 70 + 35	135	115	130	175	150	165	12 / 6	12 / 6	1.40 / 1.20	0.40	4 X 0.80	1.56	32	1700.00	3100	2.00	1.56	34	2200	3600	0.443	0.268
3 X 95 + 50	165	140	155	210	175	200	15 / 6	15 / 6	1.60 / 1.40	0.40	4 X 0.80	1.56	36	2150.00	4050	2.00	1.72	39	2800	4750	0.32	0.193
3 X 120 + 70	185	155	180	240	195	230	15 / 12	18 / 12	1.60 / 1.40	0.50	4 X 0.80	1.72	40	2550.00	5050	2.00	1.88	42	3300	5750	0.253	0.153
3 X 150 + 70	210	175	205	270	225	265	15 / 12	18 / 12	1.80 / 1.40	0.50	4 X 0.80	1.88	44	3000.00	6000	2.00	1.88	46	3750	6700	0.206	0.1240
3X 185 + 95	235	200	240	300	255	305	30 / 15	30 / 15	2.00 / 1.60	0.50	4 X 0.80	2.04	48	3650.00	7400	2.50	2.04	51	4850	8650	0.164	0.0991
3 X 240 + 120	275	235	280	345	295	355	30 / 15	34 / 18	2.20 / 1.60	0.60	4 X 0.80	2.20	53	4500	9400	2.50	2.36	57	5850	10800	0.125	0.0754
3 X 300 + 150	305	260	315	385	335	400	30 / 15	34 / 18	2.40 / 1.80	0.60	4 X 0.80	2.36	58	5450	11650	3.15	2.52	63	7600	13800	0.100	0.0601
3 X 400 + 185	335	290	375	425	360	455	53 / 30	53 / 30	2.60 / 2.00	0.70	4 X 0.80	2.68	64	6750	14600	3.15	2.68	69	9000	16850	0.0778	0.0470

Technical Details :

Four Core, Aluminium / Copper Conductor, PVC Insulated, Unarmoured Cables 1100 V (1.1 KV)

Cable Code : AYY / YY

Conductor Material : Aluminium / Copper as per Class - 1 & 2 of IS: 8130

Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular

Insulation Material : **PVC Type-A OR HR PVC Type-C as per IS: 5831**; Colour : Red, Yellow, Blue & Black

Outer Sheath : PVC Type ST-1 as per IS: 5831; **Options** : **PVC Type ST-2 / FR Type / FRLS Type**

Colour of Outer Sheath : Black or any other Colour as per requirement



UNARMoured CABLES

(Generally conforming to 1554 Part - 1)

Four
Core } PVC



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART -II)						Minimum No.of Strand in Conductor		Nominal Thickness of Insulation	Nominal Inner Sheath Thickness	Nominal Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable		Max.Conductor D.C.Resistance at 20°C	
	For Aluminium Conductor			For Copper Conductor									with Aluminium Conductor	with Copper Conductor		
	Ground	Duct	Air	Ground	Duct	Air	Alu.	Copper					Aluminium	Copper		
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
1.5	16	14	13	21	17	17	1/3	1/3	0.80	0.30	1.80	13.10	170	200	18.1	12.1
1.5	21	18	18	27	24	24	1/3	1/3	0.90	0.30	1.80	14.40	210	260	12.1	7.41
4	36	30	30	28	23	23	1/3	1/3	1.00	0.30	1.80	15	290	400	7.41	4.61
6	35	30	30	45	38	39	1/3	1/3	1.00	0.30	1.80	17	350	510	4.61	3.08
10	46	39	40	60	50	52	1/7	6	1.00	0.30	1.80	19	440	710	3.08	1.83
16	60	50	51	77	64	66	6	6	1.00	0.30	2.00	21	550	950	1.91	1.15
25	76	63	70	99	81	90	6	6	1.20	0.30	2.00	23	750	1350	1.2	0.727
35	92	77	86	120	99	110	6	6	1.20	0.30	2.00	26	900	1700	0.868	0.524
50	110	95	105	145	125	135	6	6	1.40	0.30	2.20	29	1200	2300	0.641	0.387
70	135	115	130	175	150	165	12	12	1.40	0.30	2.20	32	1500	3100	0.443	0.268
95	165	140	155	210	175	200	15	15	1.60	0.40	2.40	37	2000	4200	0.32	0.193
120	185	155	180	240	195	230	15	18	1.60	0.40	2.40	41	2400	5150	0.253	0.153
150	210	175	205	270	225	265	15	18	1.80	0.40	2.60	45	2900	6350	0.206	0.124
185	235	200	240	300	255	305	30	30	2.00	0.50	2.80	50	3600	7900	0.164	0.0991
240	275	235	280	345	295	355	30	34	2.20	0.50	3.00	56	4550	10200	0.125	0.0754
300	305	260	315	385	335	400	30	34	2.40	0.60	3.40	64	5650	12750	0.100	0.0601
400	335	290	375	425	360	455	53	53	2.60	0.70	3.60	70	7000	16100	0.0778	0.0470

Technical Details :

Four Core, Aluminium / Copper Conductor, PVC Insulated, Armoured Cables 1100 V (1.1 KV)

Cable Code : **AYFY / YFY, AYWY / YWY**

Conductor Material : Aluminium / Copper as per Class - 1 & 2 of IS: 8130

Shape of Conductor : For Al Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Circular
For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm and above - Stranded Compacted Circular

Insulation Material : **PVC Type-A OR HR PVC Type-C as per IS: 5831; Colour** : Red, Yellow, Blue & Black

Inner Sheath : PVC Type ST-1 as per IS: 5831; **Options** : **PVC Type ST-2 / FR Type / FRLS Type**

Armouring : Single Layer of Aluminium Round Wire / Flat Strip"

Outer Sheath : PVC Type ST-1 as per IS: 5831; **Options** : **PVC Type ST-2 / FR Type / FRLS Type**

Colour of Outer Sheath : Black or any other Colour as per requirement



SRiNi LiNK®

Mfg. of Wires & Cables
CONNECT YOUR FUTURE

ARMoured CABLES

(Generally conforming to IS : 1554 Part - 1)

Four
Core

PVC



Physical Parameters & Electrical Parameters

Size (Cross Sectional Area)	Normal Current Rating as per IS 3961 (PART -II)						Minimum No.of Strand in Conductor		Nominal Thickness of Insulation	Minimum Inner Sheath Thickness	Flat Strip Armoured (AYFY / YFY)					Round Wire Armoured (AYWY / YWY)					Max.Conductor D.C.Resistance at 20°C	
	For Alu. Conductor			For Cu. Conductor							Nominal Armour Strip Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable		Nominal Armour Round Dimension	Minimum Outer Sheath Thickness	Approx. overall Dia. of Cable	Approx. Weight of Cable			
	Ground	Duct	Air	Ground	Duct	Air								with Aluminium Conductor	with Copper Conductor				with Aluminium Conductor	with Copper Conductor		
							Alu.	Copper													kg / km	kg / km
Sq.mm	Amps	Amps	Amps	Amps	Amps	Amps	Nos.	Nos.	mm	mm	mm	mm	mm	kg / km	kg / km	mm	mm	mm	kg / km	kg / km	ohm / km	ohm / km
1.5	16	14	13	21	17	17	1/3	1/3	1.10	0.30	NA	NA	NA	NA	NA	1.40	1.24	14.70	460	580	18.1	12.1
2.5	21	18	18	27	24	24	1/3	1/3	1.20	0.30	NA	NA	NA	NA	NA	1.40	1.24	16.00	500	600	12.1	7.41
4	36	30	30	28	23	23	1/3	1/3	1.00	0.30	NA	NA	NA	NA	NA	1.40	1.24	17	520	620	7.41	4.61
6	35	30	30	45	38	39	1/3	1/3	1.00	0.30	NA	NA	NA	NA	NA	1.40	1.24	19	610	770	4.61	3.08
10	46	39	40	60	50	52	1/7	6	1.00	0.30	4 X 0.80	1.40	19	600.00	850.00	1.60	1.4	21	790	1060	3.08	1.83
16	60	50	51	77	64	66	6	6	1.00	0.30	4 X 0.80	1.40	21	750.00	1100.00	1.60	1.40	23	950	1350	1.91	1.15
25	76	63	70	99	81	90	6	6	1.20	0.30	4 X 0.80	1.40	24	950.00	1550.00	1.60	1.40	25	1200	1800	1.2	0.727
35	92	77	86	120	99	110	6	6	1.20	0.30	4 X 0.80	1.40	26	1150.00	2000.00	1.60	1.56	28	1450	2300	0.868	0.524
50	110	95	105	145	125	135	6	6	1.40	0.40	4 X 0.80	1.56	30	1450.00	2550.00	2.00	1.56	32	2000	3100	0.641	0.387
70	135	115	130	175	150	165	12	12	1.40	0.40	4 X 0.80	1.56	33	1850.00	3450.00	2.00	1.56	35	2400	4000	0.443	0.268
95	165	140	155	210	175	200	15	15	1.60	0.40	4 X 0.80	1.72	38	2350	4600	2.00	1.72	40	3000	5250	0.32	0.193
120	185	155	180	240	195	230	15	18	1.60	0.50	4 X 0.80	1.88	41	2800	5650	2.00	1.88	44	3500	6350	0.253	0.153
150	210	175	205	270	225	265	15	18	1.80	0.50	4 X 0.80	1.88	45	3300	6800	2.50	2.04	49	4500	7950	0.206	0.124
185	235	200	240	300	255	305	30	30	2.00	0.60	4 X 0.80	2.04	50	4000	8350	2.50	2.20	54	5350	9700	0.164	0.0991
240	275	235	280	345	295	355	30	34	2.20	0.60	4 X 0.80	2.36	57	5100	10800	2.50	2.36	60	6500	12250	0.125	0.0754
300	305	260	315	385	335	400	30	34	2.40	0.70	4 X 0.80	2.52	64	6200	13300	3.15	2.68	69	8500	15700	0.100	0.0601
400	335	290	375	425	360	455	53	53	2.60	0.70	4 X 0.80	2.84	71	7650	16750	3.15	2.84	75	10200	19350	0.0778	0.0470

LIST OF OUR END USER CUSTOMERS

TIER 1 CUSTOMERS



AUTOMOBILE



PANEL & SWITCH BOARD



POWER DISTRIBUTION



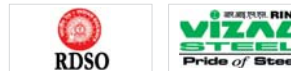
MEDICAL EQUIPMENT



CONSTRUCTION EQUIPMENT



APPLIANCES



LIST OF TEST INSTRUMENTS & EQUIPMENTS

SR.NO.	TEST EQUIPMENTS	NOS.	LEAST COUNT	RANGE
1	Digital Micrometer	2	0.001 mm	0 - 25 mm
2	Gage Block Set	1	-	-
3	Digital Vernier Caliper	2	0.01 mm	0 To 150 mm
4	Glass Thermometer	2	10c	-10°C to +110°C
5	Digital stop watch	1	0.01 s	0.01 s To 60 s
6	Digital Temp. Controlled Oven	2	-	amb - 200 0c
7	Heat shock test Mandrel all sizes	1	-	4 mm to 30 mm
8	Hot Deformation test apparatus with require weight	1	-	5 gm to 100 gm
9	Digital Temp. cont. of Thermal Stability Oven glass tube & PH paper	1	0.10C.	amb - 210.0°C
10	Digital Temp. & RH Controlles Of Cold Chamber	1	0.10C&0.1%RH.	10.0 to 50.0 0C & 40.0 to 95.0% RH
11	Digital Temp. Cont. Of Cold Chamber	1	0.10C.	-40.0°C Amb
12	Cold Bend test Mandrel all sizes	1	-	18 mm to 130 mm
13	Cold Impact	1	-	-
14	Digital Temp. Controlled Single Cell Ageing Oven	1	0.1°C	Amb to 200 °C
15	Digital Temp. Controlled Muffle Furnace (HCL)	1	10C.	Amb to 10000 C
16	Digital Temp. Cont. Of Oil Bath	1	1°C.	Amb to 150°C
17	Analogue HV AC TEST SET	1	0.05/0.1 KV AC	3/6 KV AC
18	Analogue HV DC TEST SET	1	0.03 KV DC	1.5 KV DC (-VE HT)
19	Digital HV AC Test Set	1	0.1 KV AC.	30.00 KV AC
20	Digital Micro Ohm Meter	2	0.0001m to 0.0001kΩ in 7	1.9999 mΩ to 1.9999 KΩ in 7
21	Analogue Million Mega Ohm Meter	1	10 MΩ to 20 × 106 MΩ/500V DC	10 MΩ to 20 × 106 MΩ/500V DC
22	Water bath with thermostatic Controller	2	1°C.	Amb to 110 °C
23	Digi. Panel Meter of Temp. Rise Cum Voltage Drop Test set	1	01A/0.001V/10C	200 AAC/1.999VAC/4000 C
24	Digital Oxygen & Temp. Indicator of Oxygen & Temp. Index Apparatus	1	0.1%/0.10C	50mVDC display 100% O2 & 2000c(PT-100)
25	Smoke density apparatus (new)	1	0.10 C/0.1 % Absorption/0.01 VDC	100.00C/100% Absorption/6.00 VDC
26	Vaccum oven (new)	1	0.10C.	Amb to 1500 C
27	4 cell aging oven (new)	1	0.10C.	Amb to 2000 C
28	Loss of mass test apparatus	2	---	---
29	Hot set test	1	0.10C.	Amb to 2100 C
30	Scrap Abrasion Test Apparatus	1	-	-
31	Abrasion Test Apparatus	1	0.01V/1RPM/1 mm	19.99 VAC/9999RPM/9999MM
32	Hydrometer D 01	1	0.005 Sp.Gravity	0.700 to 1.000 Sp.Gravity
33	Hydrometer CP 02	1	0.005 Sp.Gravity	0.700 to 1.000 Sp.Gravity
34	Digital Thermo Hygro Meter	1	± 1 0C/± 3 % RH	- 100C to 50.00C/ 20 to 99%RH.
35	Digital Tensile Tester	1	0.5 N	2500.0 Newton
36	Tensile tester with Dumble Cutter dia	1	-	-
37	Digital Weighing Balance	1	0.0001 g	0-220 g.
38	Measuring Scale	3	1mm	0-300 MM
39	Portable microscope	1	0.01 mm	0-2m
40	Graduated Brinell Microscope	1	0.01 mm	0.7 mm
41	Spark tester (Online)	6	0.5 KV	15 KV
42	PVC hardness tester	1	-	-
43	Flamability test chamber with Burner	1	-	-
44	Resistance Box with Fixed Resistors	1	± 3%	10,100&500MΩ
45	DMP of Fire Retardent Test Panel for Bunched Cable	1	0.1°C/0.01 CuM / 0.1 minute	100°/12VDC Display 6.00 CuM / 60.0 Minute
46	Kelvin Bridge with Null detector	1	0.2μ	0 TO 11 Ω
47	Digital Temp. Indicator of swedish chimney test apparatus	1	1 °C	0 To 400°C

SRiNi LiNK

Regd. Office & Works: Plot No. 1308/2, 1308/1 & 1309/2, Road No. 18, Phase 3, G I D C Industrial Estate, Umbergaon - 396171, Gujarat. • Tel.: +91 260 2562712
E: sl.marketing@srinilink.com • **W:** www.srinilink.com