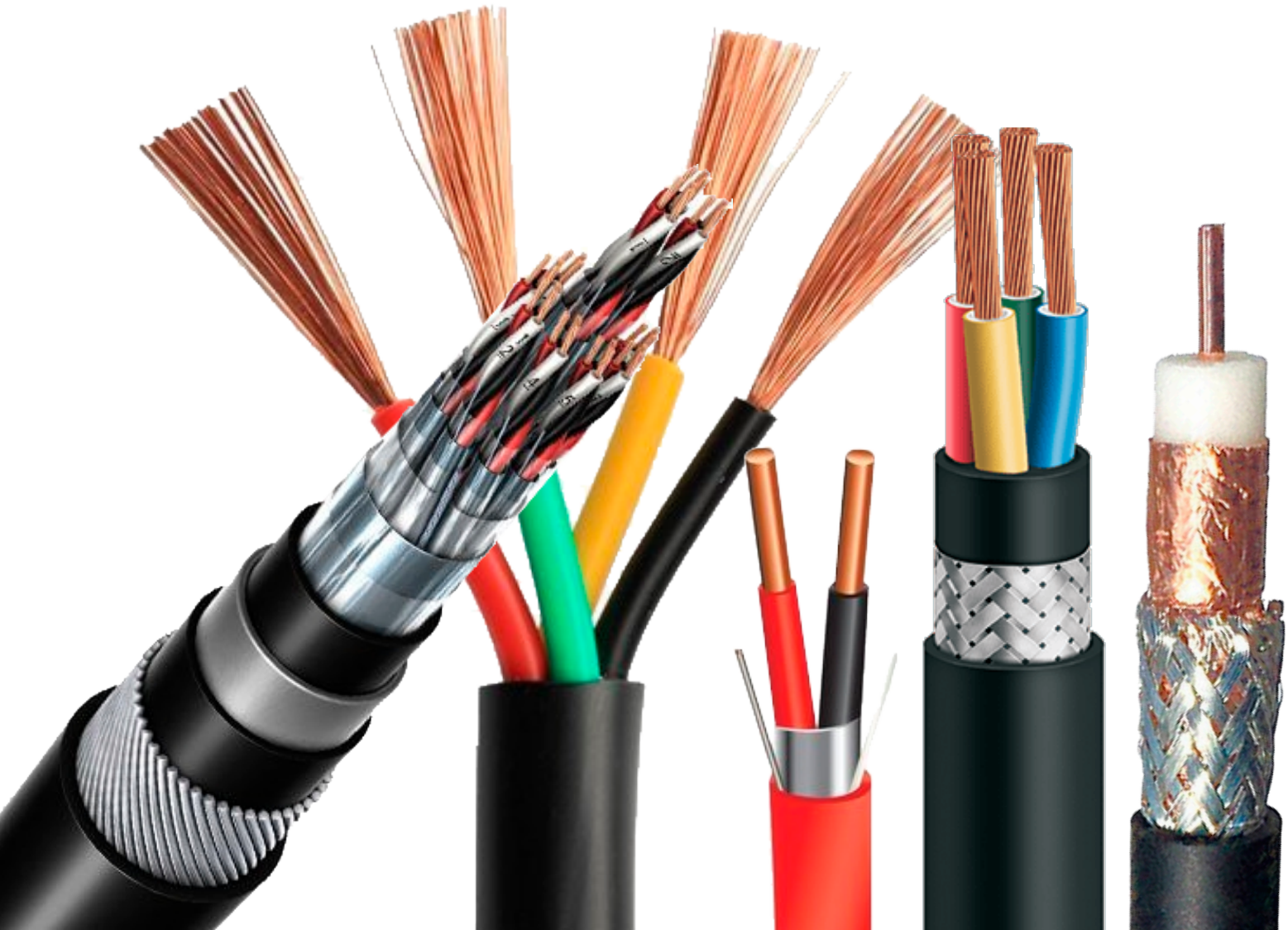




SRI PADMAVATHI CABLES



SRI PADMAVATHI CABLES AN MSME, GeM(Govt. e-Market) Registered & an ISO 9001: 2015 CERTIFIED company associated with Manufacturing and Marketing **WIRETECH & HEMFLEX** BRAND of copper conductor , PVC/XLPE/PE Insulated Electrical Cables voltage grade up to 1.1 KV. Plant situated in Amgaon, Talasari, Maharashtra, India. Our manufacturing facility is a state-of-the-art technology and backed by complete in-house testing facilities and ably supported by qualified and experienced technical personnel, and strictly following the IS, BS, IEC Standards.



SRI PADMAVATHI CABLES product range that includes.

Instrumentation, Signal/ Screened/ Braided, RTD, RS 485, E-BUS cables, Fire Alarm/Fire Survival Cables Power /control cables, LAN Cables, Co-Axial Cables, Solar DC Cables, PVC insulated Single & Multicore. PVC/FR PVC/FRLS/LSZH Outer Sheathed cables.

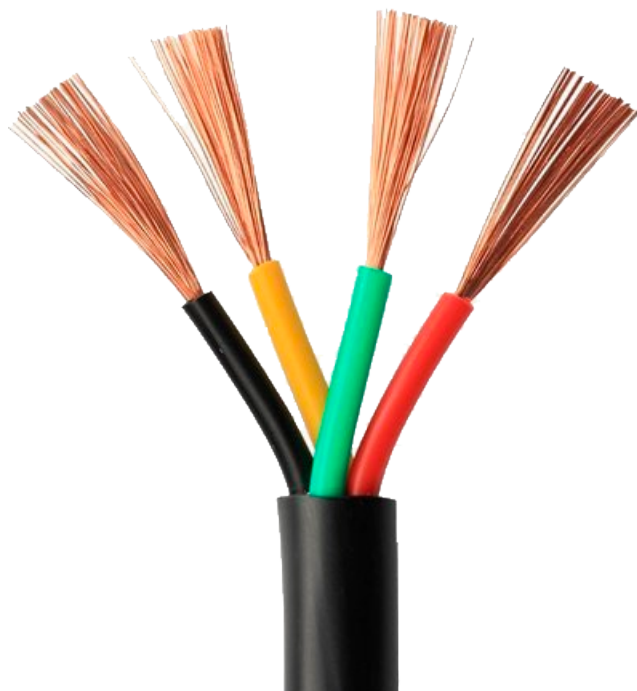
SRI PADMAVATHI CABLES is Catering to various industries, Petrochemical. Oil & Gas, Cement, Power Plants, Pharma, Aviation, Shipping, Steel, Telecom, Process Controls, transmission of Signals, Industrial & Building Automation.

Electrolytic Grade Solid/ Stranded Annealed Bare Copper Conductor (Class I & II) PVC Insulated Unsheathed Single Core Wires Generally Confirming to is 694: 2010 (REVD) (1 & 2) Voltage Grade Upto 450/750 /1100V

Nom. Area Of Conductor (sq mm)	No. Of Strands Dia Of Wire (mm)	Insulation Thickness (mm)	Approx. Overall Core Dia (mm)	Max. Dc Resistance Ohm/km 20°C	Current Rating Amp
0.25	0.565 /10R 7/0.214	0.4	1.0	99	2
0.5	1/0.8 OR 7/0.0302	0.6	1.95	39	4
0.75	1/ 0.98 OR 7/0.37	0.6	2.2	24	7
1	1/1.12 OR 7/0.43	0.7	2.6	18.1	10.1
1.5	1/1.38. OR 3/0.80/OR 7/0.53	0.7	2.9/3.20	12.1	13
2.5	1/1.78 OR 3/ 1.04 / 7/0.68	0.8	3.4/3.8	7.41	20
4	1/2.24 OR 7/0.85	0.8	3.90/4.20	4.61	26
6	1/2.78/ OR 7/1.04	0.8	4.40/4.80	3.08	35
10	7/1.35	1	6.1	1.83	44
16	7/1.70	1	7.2	1.15	55
25	7/2.14	1.2	8.9	0.727	75
35	7/2.52	1.2	10	0.524	90
50	7/3.0 OR 19/1.83	1.4	12.2 /11.9	0.387	120
70	19/2.16	1.4	13.8	0.268	150
95	19/2.52	1.6	16	0.193	175

ELECTROLYTIC GRADE MULTI STRANDED ANNEALED BARE COPPER CONDUCTOR PVC INSULATED UNSHEATHED SINGLE CORE WIRES GENERALLY CONFIRMING TO IS 694: 2010 (REVD) (1 & 2) VOLTAGE GRADE UP TO 450/750 /1100V

Nom. Area Of Conductor (sq mm)	No. Of Strands Dia Of Wire (mm)	Insulation Thickness (mm)	Approx. Overall Core Dia (mm)	Max. Dc Resistance Ohm/km 20°C	Current Rating Amp
0.5	16/0.2	0.6	2	39	4
0.75	24/0.2	0.6	2.3	26	7
1	32/0.2	0.6	2.45	19.5	12
1.5	48/0.2	0.6	2.75	13.3	15
2.5	80/0.2	0.7	3.5	7.98	20
4	56/0.3	0.8	4.1	4.95	27
6	84/0.3	0.8	4.75	3.3	35
10	80/0.4	1	6	1.91	46
16	126/0.4	1	7.1	1.21	62
25	196/0.4	1.2	8.8	0.78	80
35	276/0.4	1.2	10	0.554	102
50	396/0.4	1.4	12	0.386	138
70	354/0.5	1.4	13.9	0.272	214
95	584/0.5	1.6	15.9	0.206	260
120	608/0.5	1.6	17.8	0.161	305
150	750/0.5	1.8	19.8	0.129	355
185	925/0.5	2	22	0.106	415
240	1221/0.5	2.2	26	0.0801	500



FLEXIBLE CABLES

Standards : IS : 694: 2010 ,BS 6004/95 & BS 2465 , IEC :228

Voltage Grade: 450/750/1100V

Cable Codes : Y : PVC Insulated Copper Conductor Cable

YY : PVC Insulated Copper Conductor PVC Sheathed Cable

Colour Code : As Per IS or Customised by Customer Requirements

Type : Single/ Multi Core Flexible

Cross Section Area : Single core 0.5 sq mm to 1000 sq mm

Multi Core: 0.5 to 240 sq mm

Conductor : Copper. Solid /Stranded/Multi Stranded

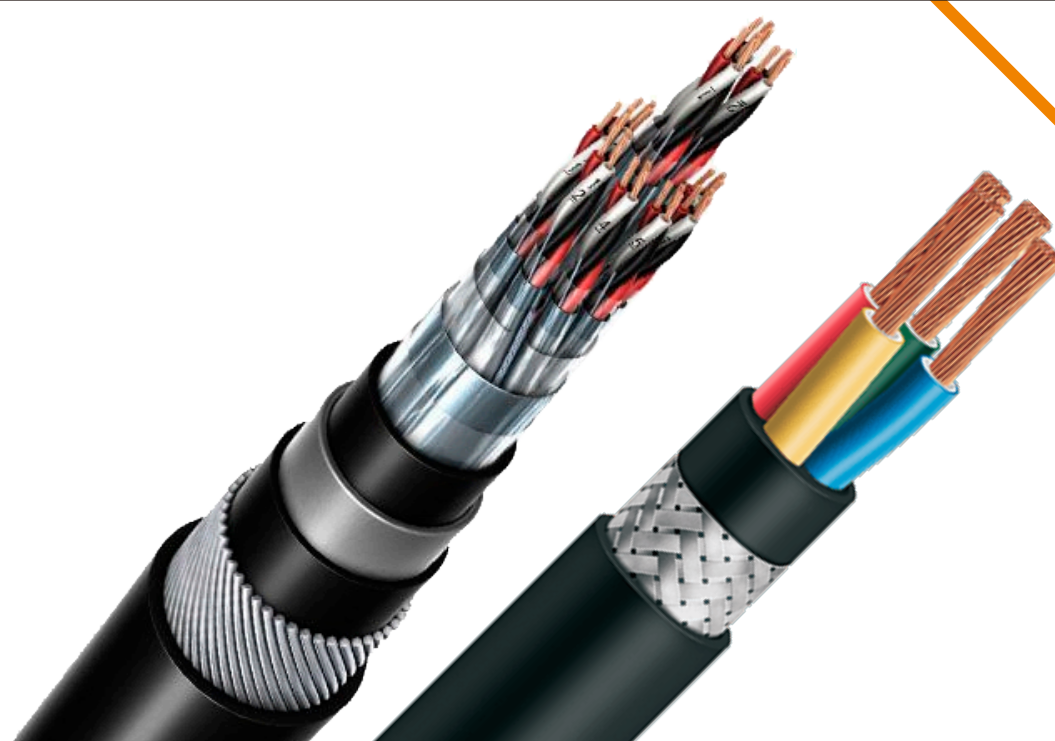
Class : 1 , 2, & 5

Insulation : Type “A” PVC / FR PVC / FRLS PVC/HR PVC

Sheath : General Purpose PVC / Flame Retardent Low-smoke(FRLS)

Low Smoke Zero Halogen/LSZH /ZHLS

Application: Building /House Hold wire/Control Panel/Machinery



INSTRUMENTATION CABLES

Standards : BS 5308 Part-1 & Part-2 BS EN 50288-7

Voltage Grade: 300/500V

Cable Code & Constituent :

YSWY : Copper/PVC/Overall Screened/ Galvanized Steel Round Wire/PVC

YSFY : Copper/PVC/Overall Screened Galvanized Steel Flat Strip/PVC

YSSWY : Copper/PVC/Individual & Overall Screened/Galvanized Steel Round Wire/PVC

YSSFY : Copper/PVC/Individual & Overall Screened/ Galvanized Steel Flat Strip/PVC

Construction : Cores /Pairs/ Triads/ Quads

Range : 0.5/0.75/1.0 / 1.5 / 2.5 sq mm with up to 48 Pairs.

Conductor : Annealed Plain/Tinned Electrolytic Grade Solid/ Stranded/Flexible

Copper Conductor

Class - 1, 2 or 5 as Per BS EN 60228, IS 8130

Insulation : PVC/HR PVC/ XLPE/PE/ as Per IS: 5831, IS 7098 (P-1)

Identification : Core-Coloured Insulation or by Number Printing/Number Tape

Pair/Triad/Quad-Colour Insulation Number Printing or Numbered Polyester Tape.

Twisting : Insulated Cores Shall be twisted to form a Pair/ Triad/ Quad with Different Lay to Minimize the Cross Talk.

Screening/Shielding: Individual or Overall Screen with a Combination of Polyester Tape and Aluminum Mylar Tape with ATC Drain Wire 100% Coverage & 25% Overlap

Laying : Core/Pair/Triad/ Quad are Assembled in Concentric or unit Formation With Suitable Lay Length.

Inner Sheath : PVC ST1/ST2 with or without FR/FRLSH/LSZH. IS: 5831, BS EN 50290 -2-22 & 27

Rip Cord : Rip Cord is Provided as per Customer Requirements for easy Removal of Sheath.

Armouring : Galvanized Steel Wire/Flat Strip or SS Wire Braiding IS: 3975

Outer Sheath : PVC ST1/ST2 with or without FR/FRLSH/LSZH. IS: 5831

Temperature Rating: 70°C Max Conductor Operating Temperature

Application : Petrochemical. Oil & Gas, Cement, Power Plants, Pharma, Aviation, Shipping, Steel, Telecom, Industrial & Building Automation.

OVERALL SCREENED SINGLE AND MULTI -PAIR ARMoured & UN-ARMoured INSTRUMENTATION CABLES VOLTAGE GRADE 500V

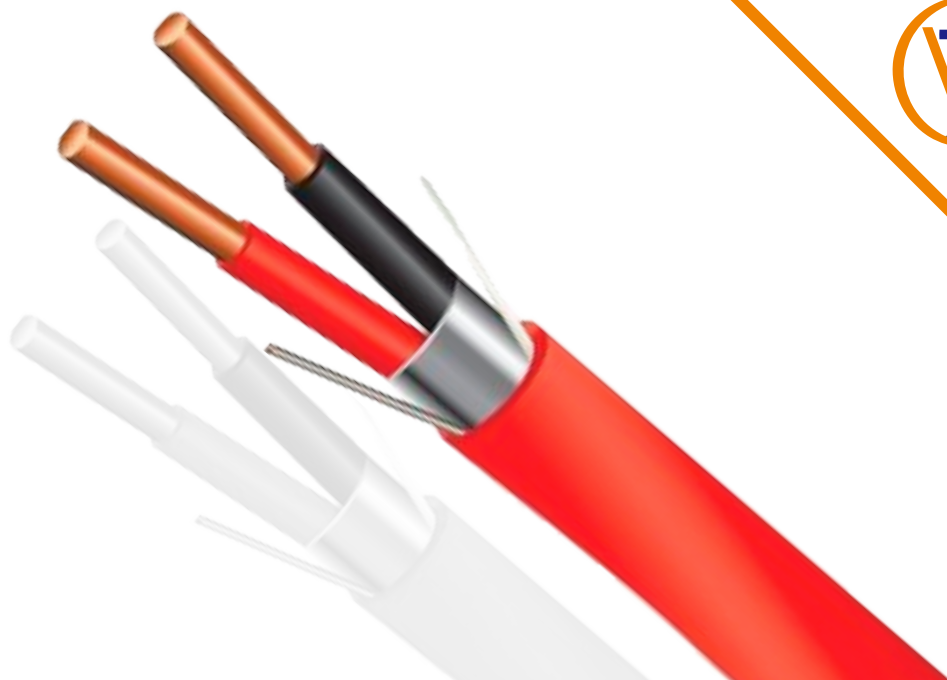


No. of Pairs	Nom. Area of Conductor (mm)	Insulation Thickness (mm)	Nom. Steel Wire or Strip Dia (mm)	ARMoured				UN-ARMoured	
				Min. Thickness of Outer Sheathe	Approx. Overall Diameter (mm)	Approx-weight (kg/km)	Nom. Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Approx. Weight (kg/km)
1	0.5	0.45	0.9	1.24	10	195	1.8	8	84
2	0.5	0.45	0.9	1.24	13	280	1.8	11	125
4	0.5	0.45	0.9	1.24	14	340	1.8	12	165
5	0.5	0.45	0.9	1.24	15	390	1.8	13	205
6	0.5	0.45	0.9	1.24	16	435	1.8	14	230
8	0.5	0.45	0.9	1.24	17.5	495	1.8	16	265
10	0.5	0.45	0.9	1.24	19	585	1.8	17.5	325
12	0.5	0.45	0.9	1.24	20	625	1.8	18	355
20	0.5	0.45	4X 0.8	1.4	24	885	2	22.5	555
24	0.5	0.45	4x 0.8	1.4	26.5	1050	2	25	660
1	0.75	0.45	0.9	1.24	10.5	210	1.8	8.5	94
2	0.75	0.45	0.9	1.24	13.5	305	1.8	11.5	145
4	0.75	0.45	0.9	1.24	15	380	1.8	13	195
5	0.75	0.45	0.9	1.24	16	445	1.8	14	245
6	0.75	0.45	0.9	1.24	17	495	1.8	15.5	275
8	0.75	0.45	0.9	1.24	19	575	1.8	17	325
10	0.75	0.45	4 X 0.8	1.4	21	705	1.8	19	400
12	0.75	0.45	4 X 0.8	1.4	22	775	1.8	20	440
20	0.75	0.45	4 X 0.8	1.4	26	1055	2	24.5	685
24	0.75	0.45	4 X 0.8	1.4	29	1230	2	27	820
1	1	0.45	0.9	1.24	11	225	1.8	9	104
2	1	0.45	0.9	1.24	14	335	1.8	12	165
4	1	0.45	0.9	1.24	15.5	425	1.8	14	225
5	1	0.45	0.9	1.24	17	495	1.8	15	280
6	1	0.45	0.9	1.24	18	560	1.8	16	320
8	1	0.45	0.9	1.24	20	645	1.8	18	385
10	1	0.45	4 X 0.8	1.4	22.5	805	1.8	20	470
12	1	0.45	4 X 0.8	1.4	23	865	1.8	21	525
20	1	0.45	4 X 0.8	1.4	28	1215	2	26	825
24	1	0.45	4 X 0.8	1.4	30.5	1430	2	29	990
1	1.5	0.45	0.9	1.24	11.5	250	1.8	9.5	120
2	1.5	0.45	0.9	1.24	15	380	1.8	13	190
4	1.5	0.45	0.9	1.24	17	495	1.8	15	280
5	1.5	0.45	0.9	1.24	18	580	1.8	16.5	345
6	1.5	0.45	0.9	1.24	19.5	650	1.8	17.5	395
8	1.5	0.45	4X 0.8	1.4	22	815	1.8	20	480
10	1.5	0.45	4X 0.8	1.4	24.5	955	2	22.5	617
12	1.5	0.45	4X 0.8	1.4	26.5	1190	2	24	835
20	1.5	0.45	4 X 0.8	1.4	30.5	1495	2	29	1055
24	1.5	0.45	4 X 0.8	1.56	34	1770	2	32	1260

**INDIVIDUAL AND OVERALL SCREENED MULTI -PAIR ARMoured
& UN-ARMoured INSTRUMENTATION CABLES VOLTAGE GRADE 500V**

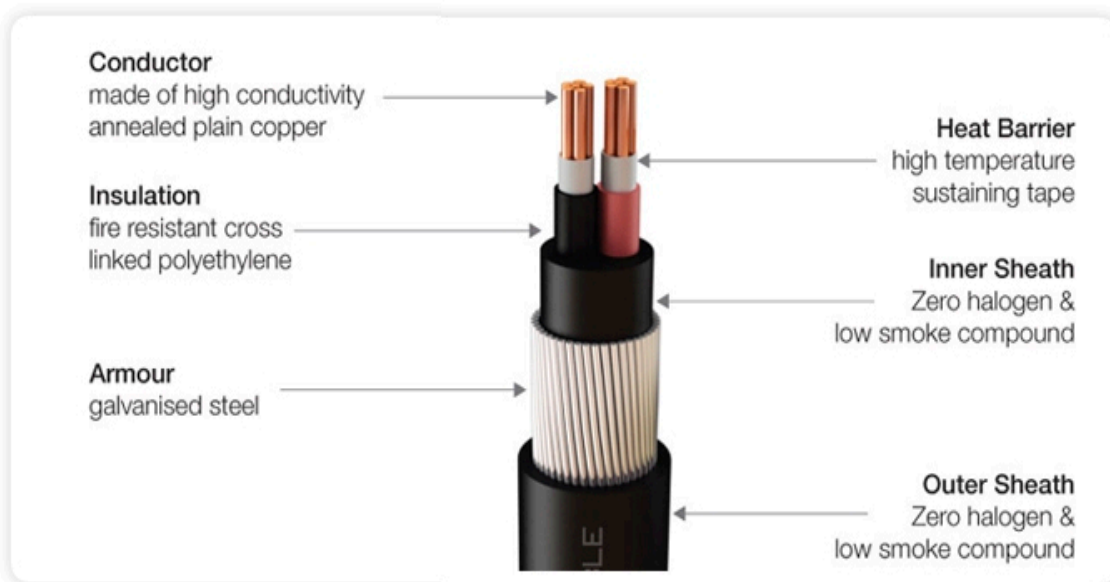


No. of Pairs	Nom. Area of Conductor (mm)	Insulation Thickness (mm)	Nom. Steel Wire or Strip Dia (mm)	ARMoured				UN-ARMoured	
				Min. Thickness of Outer Sheathe	Approx.Overall Diameter (mm)	Approx-weight (kg/km)	Nom. Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Approx. Weight (kg/km)
2	0.5	0.45	0.9	1.24	14	324	1.8	12	154
4	0.5	0.45	0.9	1.24	15.5	401	1.8	13.5	206
5	0.5	0.45	0.9	1.24	16.5	454	1.8	14.5	244
6	0.5	0.45	0.9	1.24	18	500	1.8	16	275
8	0.5	0.45	0.9	1.24	19.5	615	1.8	17.5	355
10	0.5	0.45	4X 0.8	1.4	22	756	1.8	20	426
12	0.5	0.45	4 X 0.8	1.4	22.5	799	1.8	20.5	464
20	0.5	0.45	4 X 0.8	1.4	27.5	1125	2	25.5	735
24	0.5	0.45	4 X 0.8	1.4	30.5	1280	2	28.5	840
2	0.75	0.45	0.9	1.24	14.5	354	1.8	12.5	169
4	0.75	0.45	0.9	1.24	16.5	446	1.8	14.5	236
5	0.75	0.45	0.9	1.24	17.5	514	1.8	16	284
6	0.75	0.45	0.9	1.24	19	570	1.8	17	320
8	0.75	0.45	4 X 0.8	1.4	21	725	1.8	19	415
10	0.75	0.45	4 X 0.8	1.4	23.5	866	2	22	526
12	0.75	0.45	4 X 0.8	1.4	24	909	2	22.5	579
20	0.75	0.45	4 X 0.8	1.4	29.5	1295	2	28	885
24	0.75	0.45	4 X 0.8	1.56	32.5	1500	2	30.5	1010
2	1	0.45	0.9	1.24	15.5	384	1.8	13.5	189
4	1	0.45	0.9	1.24	17	491	1.8	15.5	271
5	1	0.45	0.9	1.24	18.5	564	1.8	16.5	324
6	1	0.45	0.9	1.24	20	630	1.8	18	370
8	1	0.45	4 X 0.8	1.4	22	815	1.8	20	480
10	1	0.45	4 X 0.8	1.4	24.5	936	2	23	606
12	1	0.45	4 X 0.8	1.4	25.5	1029	2	24	669
20	1	0.45	4 X 0.8	1.4	31	1495	2	28.5	1025
24	1	0.45	4 X 0.8	1.56	34.5	1720	2	31.5	1190
2	1.5	0.45	0.9	1.24	16.5	429	1.8	14.5	219
4	1.5	0.45	0.9	1.24	8.5	571	1.8	16.5	326
5	1.5	0.45	4 X 0.8	1.24	19.5	654	1.8	18	389
6	1.5	0.45	4 X 0.8	1.4	21.5	760	1.8	19.5	450
8	1.5	0.45	4 X 0.8	1.4	24	945	2	22.5	605
10	1.5	0.45	4X 0.8	1.4	27	1116	2	25.5	726
12	1.5	0.45	4X 0.8	1.4	28	1209	2	26	819
20	1.5	0.45	4 X0.8	1.56	34	1785	2	32	1275
24	1.5	0.45	4 X0.8	1.56	38	2080	2.2	36	1510



FIRE ALARM CABLE

Standards	: IS 1554 Part-1 , 1988 , BS 5308 Part-1 & Part-2
Voltage Grade	: 1100V
Construction	: Cores (2 Cores. 4 Core 6 Core ,8 Core etc)
Range	: 0.5/0.75/1.0 / 1.5 / 2.5 / 4.0 Sq mm
Conductor	: Annealed Plain/Tinned Electrolytic Grade Solid/ Stranded/Flexible Copper
Class	: 1, 2 and 5 IS 8130
Insulation	: PVC/HR PVC/ XLPE/PE IS 5831, IS 7098 (P-1)
Identification	: Core-coloured Insulation or by Number Printing/Numbered Polyester Tape
Twisting	: 2 Insulated Cores Shall be Twisted to Form a Pair
Laying	: 3 Cores are More Cores are Laid Up Together with Suitable Lay Length.
Inner Sheath	: General Purpose PVC/ Flame Retardant (FRPVC) Flame Retardant Low Smoke /FRLS/LSZH. IS: 5831
Armouring	: Galvanized Steel Wire/Flat Strip or SS Wire Braiding IS 3975
Outer Sheath	: Flame Retardant Low Smoke (FRLS) Low Smoke Zero Halogen (LSZH)
Application	: Building Automation, High Rise Buildings, Hospitals, Shopping Malls, Air Ports, Cement , Power Plants, Pharma, Aviation, Shipping, Steel, Integrated Building Management Systems (IBMS)



FIRE SURVIVAL CABLES

The Construction of Fire Survival Cables are Different From the Ordinary Fire Alarm Cables. The Copper Conductor is Wrapped with a Specially Designed Heat Barrier High Temperature Sustaining Tape & Fire Resistant Insulation is Covered over Heat Barrier Tape, Which Resists The Fire to Reach the Conductor Surface. The Cable Continues to Remain into Operation at High Temperatures Like 750 °c and 950 °c of Various Conditions, Operation and Application.

Circuit Integrity Test & Procedure: As Per BS : 6387 : 1994. & IEC 60331-21-31

The Test is Carried out on the Cable Operation on Load and Burning at a Temperature of 650 °c 750 °c for 2 Hrs or 950°c for 3 Hrs. The Cable is Put on Clamps above the Fire Burner of High Flames. The Power Supply is Connected to one end of the Cable at a Rated Voltage and Load is Connected to other End. Fire Applied for 3 Hrs and During This Period the Circuit Integrity must be Uninterrupted.

As Per BS : 6387. Resistance to Fire Alone:

Category A) Cables are Subject to Fire at 650°c. for 180 Minutes.

Category B) Cables are Subject to Fire at 750°c. for 180 Minutes.

Category C) Cables are Subject to Fire at 950°c. for 180 Minutes.

Category S) Cables are Subject to Fire at 950°c. for 20 Minutes. (short Duration)

Resistance to Fire with Water :

Category W) Cables Are Subject to Fire at 650°c. For 15 Minute, Then. at 650°c with Water Spray Further 15 Minutes.

As Per IEC 60331-21:

Cables are Subject to Fire at 750°c. For 90 Minutes Followed by 15 Minutes Cooling Period.

Resistance to Fire with Mechanical Shock:

BS 6387 (Category X) Cables are Subject to Fire at 650°c. With Mechanical Shock for 15 Minutes

BS 6387 (Category Y) Cables are Subject to Fire at 750°c. With Mechanical Shock for 15 Minutes

BS 6387 (Category Z) Cables are Subject to Fire at 950°c. With Mechanical Shock for 15 Minutes

IEC 60331-31: Cables are Subject to Fire at 830°c. With Mechanical Shock for 120 Minutes



Construction :

Standards : BS : 6387 & IEC 60331-21

Voltage Grade: 1100V

Construction : 2,4, 6 & 8 Core Etc.

Range : 0.5/0.75/1.0 / 1.5 / 2.5 , 4 .0 sq mm

Conductor : Annealed Plain/Tinned Electrolytic Grade, Solid/ Stranded/Flexible Copper Conductor

Class : 1, 2 or 5 IS 8130

Fire Barrier : High Temperature Sustaining Glass Mica Tape Wrapped Over Copper Conductor.

Insulation : PVC/HR PVC/ XLPE/PE/ IS : 5831, IS 7098 (P-1)

Identification : Core-coloured Insulation or by Number Printing/Numbered Polyester Tape

Twisting : 2 Insulated Cores shall be twisted to form a Pair

Laying : 3 Cores are more Cores are Laid up Together with Suitable lay Length.

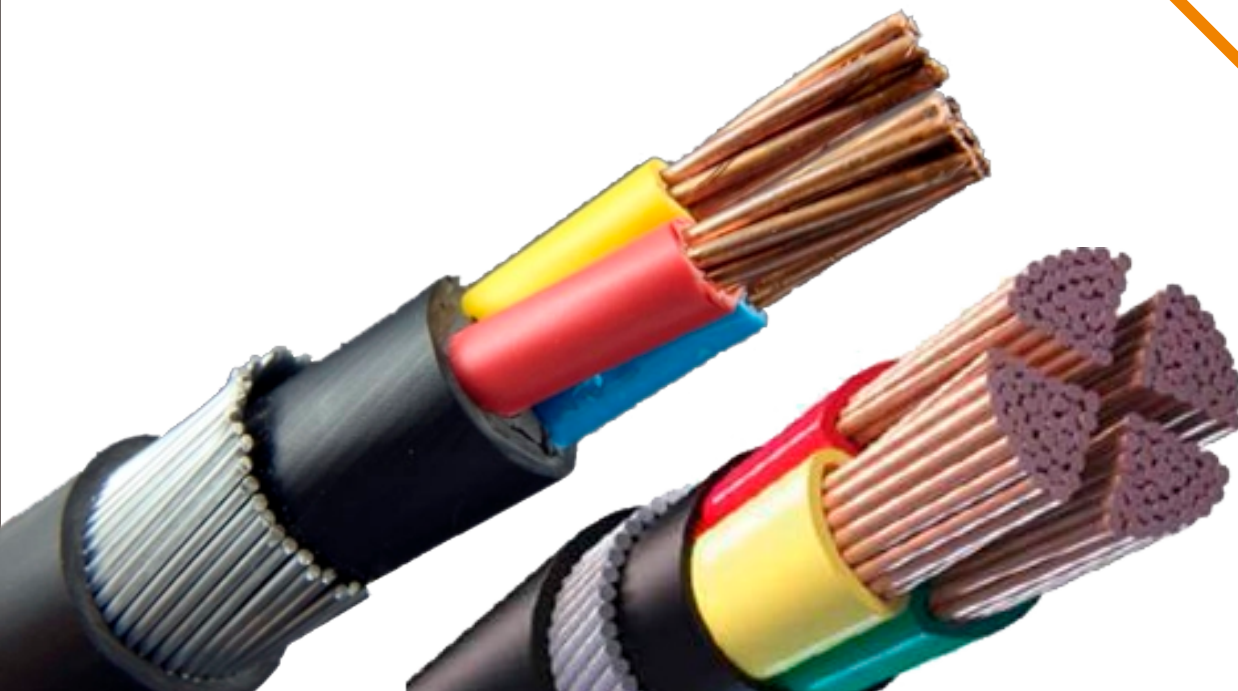
Fire Barrier Tape: High Temperature Sustaining Glass Mica Tape Wrapped Over laid up Cores.

Inner Sheath : General Purpose PVC/ Flame Retardant (FR PVC) Flame Retardant Low Smoke /FRLS/LSZH. IS 5831.

Armouring : Galvanized Steel Wire/Flat Strip or SS Wire Braiding IS : 3975

Outer Sheath : Flame Retardant Low Smoke (FLRS) / Low Smoke Zero Halogen (LSZH).

Application : Building Automation, High Rise Buildings, Hospitals, Shopping Malls, Air Ports, Cement, Power Plants, Pharma, Aviation, Shipping, Steel, Integrated Building Management Systems (IBMS)



LT POWER CABLE

Standards	: IS 1554 Part-1 , 1988, IS 7098 Part-1 1988, IEC 60502 & BS 5467
Voltage Grade	: 1100V
Product Range	: Single Core up to 1000 sq mm Multi Core: up to 630 sq mm
Cable Codes	: Y: PVC, W: Steel Wire Round Armoured, F : Flat Steel Strip Armoured WW : Steel double Round Wire Armoured FF : Steel Double Flat Strip Armoured Y : PVC For Outer Sheathe CE : Individual Core Screening
Technical Parameters	: Number of cores: Single Core to 4 Core
Cross Section Area	: Single Core Cables : 4 to 1000 sq mm as Per Specs.
Multi Core	: 4 to 630 sq mm as Per Specs.
Type of Conductor	: Copper
Class	: 1 & 2 IS : 8130
Insulation	: PVC/HR PVC/ XLPE IS: 5831, IS 7098 (P-1)
Inner Sheath	: PVC Tape Wrapped /Extruded PVC. (ST-1/ ST-2)
Type of Armouring	: Galvanized Steel Round Wire/Flat Strip
Multi Core Cables	: Galvanized Steel Round Wire/Flat Strip
Single Core Cables	: Non-Magnetic, Aluminum Round Wire/Flat Strip
Outer Sheath	: Extruded PVC /FR /FRLS/ LSZH.(ST-1/ST -2)
Application	: Thermal Power Stations, Power Distribution Systems Steel Plants, Cement Plants, Oil Refineries, Hotels, Hospitals, Commercial Buildings



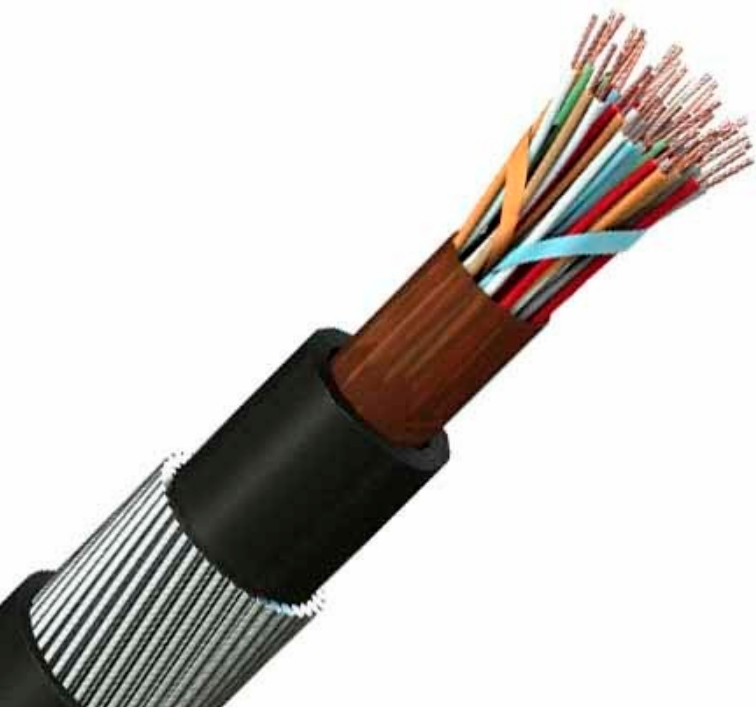
**"WIRETECH"1.1 KV THREE CORE COPPER CONDUCTOR,
PVC INSULATED INNER SHEATHED ARMoured PVC
SHEATHED CABLES CONFIRMING TO IS 1554 (PART-1) ARMoured**

Nom.Cross Sectional Area.sq	Nom. Thickness of Insulation	Nominal Thickness of Inner Sheath	GI Round Steel Wire Nominal Dia	GI. Flat Steel Strip. Thickness	Min. Thickness of Outer Sheath.	Approx. Overall Diameter	Approx-Weight	Max. DC Conductor Resistance at 20° C	Direct In Ground	In Ducts	In Air
mm	mm	mm	mm	mm	mm	mm	kg/km	Ohm/km	Amp	Amp	Amp
*1.5	0.8	0.3	1.4		1.24	12.5	405	12.1	21	17	17
*2.5	0.9	0.3	1.4		1.24	14	475	7.41	27	24	24
*4.0	1	0.3	1.4		1.24	15.5	580	4.61	36	30	30
*6.0	1	0.3	1.4		1.24	17	700	3.08	45	38	39
*10	1	0.3	1.4		1.4	19	890	1.83	60	50	52
16	1	0.3		4 X 0.8	1.4	20	950	1.15	77	64	66
25	1.2	0.3		4 X 0.8	1.4	22	1270	0.727	99	81	90
35	1.2	0.3		4 X 0.8	1.4	25	1600	0.524	120	99	110
50	1.4	0.3		4 X 0.8	1.56	27	2150	0.387	145	125	135
70	1.4	0.4		4 X 0.8	1.56	31	2800	0.268	175	150	165
95	1.6	0.4		4 X 0.8	1.56	34	3670	0.193	210	175	200
120	1.6	0.4		4 X 0.8	1.72	38	4470	0.153	240	195	230
150	1.8	0.5		4 X 0.8	1.88	42	5500	0.124	270	225	265
185	2	0.5		4 X 0.8	1.88	46	6650	0.099	300	255	305
240	2.2	0.6		4 X 0.8	2.2	52	8450	0.075	345	295	355
300	2.4	0.6		4 X 0.8	2.36	56.5	10450	0.06	385	335	400
400	2.6	0.7		4 X 0.8	2.52	64	13525	0.047	425	360	455

**"WIRETECH"1.1 KV FOUR CORE COPPER CONDUCTOR,PVC INSULATED INNER SHEATHED,
ARMoured PVC SHEATHED CABLES CONFIRMING TO IS 1554(PART-1) ARMoured**

Nom.Cross Sectional Area.sq	Nom. Thickness of Insulation	Nominal Thickness of Inner Sheath	GI Round Steel Wire Nominal Dia	GI. Flat Steel Strip. Thickness	Min. Thickness of Outer Sheath.	Approx. Overall Diameter	Approx-Weight	Max. DC Conductor Resistance at 20° C	Direct In Ground	In Ducts	In Air
mm	mm	mm	mm	mm	mm	mm	Kg/Km	Ohm/km	Amp	Amp	Amp
*1.5	0.8	0.3	1.4		1.24	15	440	12.1	21	17	17
*2.5	0.9	0.3	1.4		1.24	16.5	550	7.41	27	24	24
*4.0	1	0.3	1.4		1.24	18	650	4.61	36	30	30
*6.0	1	0.3	1.4		1.24	19.5	800	3.08	45	38	39
*10	1	0.3		4 X 0.8	1.4	20	910	1.83	60	50	52
16	1	0.3		4 X 0.8	1.4	23	1150	1.15	77	64	66
25	1.2	0.3		4 X 0.8	1.4	24	1570	0.727	99	81	90
35	1.2	0.3		4 X 0.8	1.4	27	2035	0.524	120	99	110
50	1.4	0.4		4 X 0.8	1.56	31	2780	0.387	145	125	135
70	1.4	0.4		4 X 0.8	1.56	35	3540	0.268	175	150	165
95	1.6	0.4		4 X 0.8	1.72	38	4760	0.193	210	175	200
120	1.6	0.5		4 X 0.8	1.88	42	5770	0.153	240	195	230
150	1.8	0.5		4 X 0.8	1.88	46	7065	0.124	270	225	265
185	2	0.5		4 X 0.8	2.04	51	8580	0.099	300	255	305
240	2.2	0.6		4 X 0.8	2.36	58	11000	0.075	345	295	355
300	2.4	0.7		4 X 0.8	2.52	66	13625	0.06	385	335	400
400	2.6	0.7		4 X 0.8	2.84	80	17750	0.047	425	360	455

* If required, these sizes can be offered with min. thickness conductor also.



CONTROL CABLE

Standards	: IS 1554 Part-1 , 1988, IS 7098 Part-1 1988, IEC 60502 & BS 5467
Voltage Grade:	1100V
Product Range:	61 Cores Armoured/ Unarmoured 1.5 / 2.5 sq mm
Code	: Constituent
2X	: XLPE Insulation
W	: Round Steel Wire
F	: Flat Steel Strip Armoured
WW	: Double Flat Steel Strip Armoured
WA	: Non-Magnetic Aluminum Round Wire Armoured
FA	: Non-Magnetic Aluminum Strip Armoured
Y	: PVC Outer Sheathe

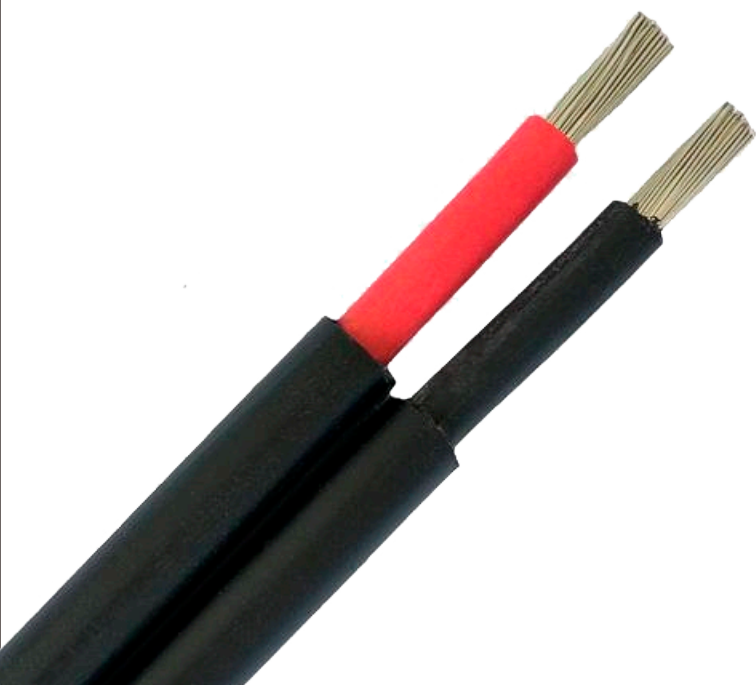
Technical Parameters:

Number of Cores	: 2 to 61 Core
Cross Section Area:	1.5 to 2.5 sq mm as per Specs.
Type of Conductor:	Solid/ Stranded Copper
Class	: 1 & 2 IS : 8130
Insulation	: PVC/HR PVC/ XLPE IS: 5831, IS 7098 (P-1)
Inner Sheath	: Extruded PVC (ST-1/ST-2)
Type of Armouring:	Galvanized Steel Round Wire/Flat Strip
Outer Sheath	: Extruded PVC /FR /FRLS/ LSZH.(ST-1/ST -2)
Application	: Digital Control & Monitoring, Information Systems, Industrial and Building Automation.



Technical Data for 1100 V Grade Armoured Control cable Type YWY and YFY conforming to IS: 1554-1/88

Type	No. of Cores & cross sectional Area (No. x mm ²)	Conductor (Cu) Min no. of wires (No.)	Thickness of PVC Insulation (Nom.) (mm)	Thickness of Common Covering Min Extruded/ wrapped (mm)	Armouring		Thickness of PVC outer Sheath (Min) (mm)	Approx O.D. (mm)	Approx Net weight of cable (kg/km)	Max D.C Resistance at 20° C (?/km)	Approx Resistance at operating Temp. 70° C (?/km)	Approx Reactance at 50 Hz (?/km)	Approx Capacitance per phase (uF/km)	Direct in ground (Amps)	Current Rating in Duct (Amps)	Current Rating in Air (Amps)
					Flat Wire Strip (mm)	Round Wire (mm)										
	2 x 1.5	1	0.8	0.3		1.4	1.24	13	370	12.1	14.5	0.244	0.1	23	20	20
	3 x 1.5	1	0.8	0.3		1.4	1.24	13.5	420	12.1	14.5	0.244	0.1	21	17	17
	4 x 1.5	1	0.8	0.3		1.4	1.24	14	480	12.1	14.5	0.244	0.1	21	17	17
	5 x 1.5	1	0.8	0.3		1.4	1.24	15	510	12.1	14.5	0.244	0.1	21	17	17
	6 x 1.5	1	0.8	0.3		1.4	1.24	16	570	12.1	14.5	0.244	0.1	15	13	13
	7 x 1.5	1	0.8	0.3		1.4	1.24	16	590	12.1	14.5	0.244	0.1	14	13	13
YWY	10 x 1.5	1	0.8	0.3		1.4	1.4	19.5	800	12.1	14.5	0.244	0.1	13	11	11
	12 x 1.5	1	0.8	0.3	4 x 0.8		1.24	18.5	720	12.1	14.5	0.244	0.1	12	10	10
	14 x 1.5	1	0.8	0.3	4 x 0.8		1.4	19.5	780	12.1	14.5	0.244	0.1	11	10	10
	16 x 1.5	1	0.8	0.3	4 x 0.8		1.4	20.5	860	12.1	14.5	0.244	0.1	11	9	9
	19 x 1.5	1	0.8	0.3	4 x 0.8		1.4	21.5	970	12.1	14.5	0.244	0.1	10	9	9
	24 x 1.5	1	0.8	0.3	4 x 0.8		1.4	24.5	1170	12.1	14.5	0.244	0.1	9	8	8
	27 x 1.5	1	0.8	0.3	4 x 0.8		1.4	25	1250	12.1	14.5	0.244	0.1	9	8	8
	30 x 1.5	1	0.8	0.3	4 x 0.8		1.4	26	1330	12.1	14.5	0.244	0.1	9	7	7
	37 x 1.5	1	0.8	0.3	4 x 0.8		1.4	27.5	1560	12.1	14.5	0.244	0.1	8	7	7
	44 x 1.5	1	0.8	0.3	4 x 0.8		1.56	31.5	1830	12.1	14.5	0.244	0.1	7	6	6
	52 x 1.5	1	0.8	0.4	4 x 0.8		1.56	32.5	2080	12.1	14.5	0.244	0.1	7	6	6
YFY	61 x 1.5	1	0.8	0.4	4 x 0.8		1.56	34.5	2330	12.1	14.5	0.244	0.1	6	6	6
	2 x 2.5	1	0.9	0.3		1.4	1.24	14	450	7.41	8.89	0.234	0.1	32	27	27
	3 x 2.5	1	0.9	0.3		1.4	1.24	14.5	510	7.41	8.89	0.234	0.1	27	24	24
	4 x 2.5	1	0.9	0.3		1.4	1.24	15.5	590	7.41	8.89	0.234	0.1	27	24	24
	5 x 2.5	1	0.9	0.3		1.4	1.24	16.5	640	7.41	8.89	0.234	0.1	27	24	24
	6 x 2.5	1	0.9	0.3		1.4	1.24	17.5	720	7.41	8.89	0.234	0.1	21	18	18
YWY	7 x 2.5	1	0.9	0.3		1.4	1.24	17.5	750	7.41	8.89	0.234	0.1	20	17	17
	10 x 2.5	1	0.9	0.3	4 x 0.8		1.4	20.5	860	7.41	8.89	0.234	0.1	18	15	15
	12 x 2.5	1	0.9	0.3	4 x 0.8		1.4	21	950	7.41	8.89	0.234	0.1	17	14	14
	14 x 2.5	1	0.9	0.3	4 x 0.8		1.4	22	1030	7.41	8.89	0.234	0.1	16	13	13
	16 x 2.5	1	0.9	0.3	4 x 0.8		1.4	23	1130	7.41	8.89	0.234	0.1	15	12	12
	19 x 2.5	1	0.9	0.3	4 x 0.8		1.4	24.5	1270	7.41	8.89	0.234	0.1	14	12	12
	24 x 2.5	1	0.9	0.3	4 x 0.8		1.4	28	1580	7.41	8.89	0.234	0.1	13	11	11
	27 x 2.5	1	0.9	0.3	4 x 0.8		1.4	29	1750	7.41	8.89	0.234	0.1	12	10	10
	30 x 2.5	1	0.9	0.3	4 x 0.8		1.56	30	1850	7.41	8.89	0.234	0.1	12	10	10
	37 x 2.5	1	0.9	0.4	4 x 0.8		1.56	32	2170	7.41	8.89	0.234	0.1	11	9	9
	44 x 2.5	1	0.9	0.4	4 x 0.8		1.56	36	2530	7.41	8.89	0.234	0.1	10	9	9
	52 x 2.5	1	0.9	0.4	4 x 0.8		1.56	37.5	2860	7.41	8.89	0.234	0.1	10	8	8
YFY	61 x 2.5	1	0.9	0.4	4 x 0.8		1.56	40	3290	7.41	8.89	0.234	0.1	9	8	8



PHOTOVOLTAIC SOLAR CABLES

Standard	: DIN VDE 0295/ IEC /EN 60228 TUV 2 PFG/1169/08.2007
LSZH	: IEC 61034, EN 52067-2, IEC 60754
Ozone	: EN 50396
Voltage Grade:	AC: 600/1000V DC: 900 /1500V
Conductor	: Flexible Annealed Tinned Copper Class-5 IS 8130/2013
Insulation	: Extruded Halogen Free- Cross-linked Compound
Sheath	: Extruded Halogen Free- Cross Linked Compound/ UV Resistant- ST2 Type PVC

Conductor Temperature Rating Ambient : - 40 to + 90°C

Maximum Conductor Temperature Rating- : +120°C (for 20000 H)

Test Voltage : 6.5KV AC According to EN 50395

Application:

These Cables are Especially Designed for use in Photovoltaic Applications.

They Provide the Optimal Cable Connection between the Solar Cells and from the Solar Cells to the Inverter or DC Main Cable.

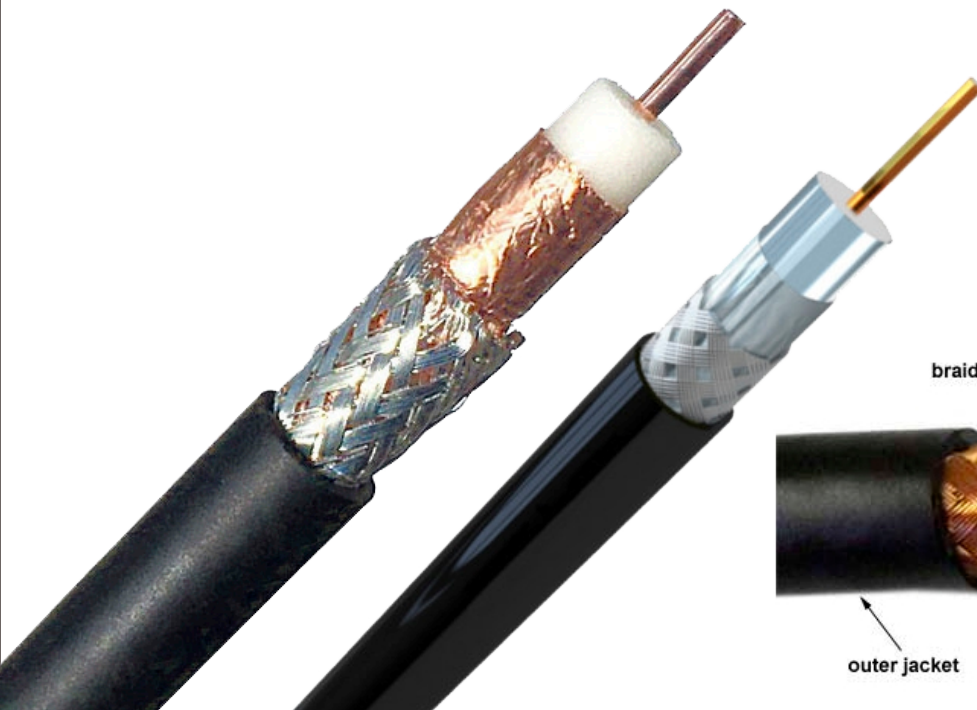
These Cables are Suitable for outdoor Ground and Roof Mounted Systems – Though not Suitable for Direct Laying Under the Earth.

They are also Suitable Laying Indoors and in Fixed Pipe Installation.

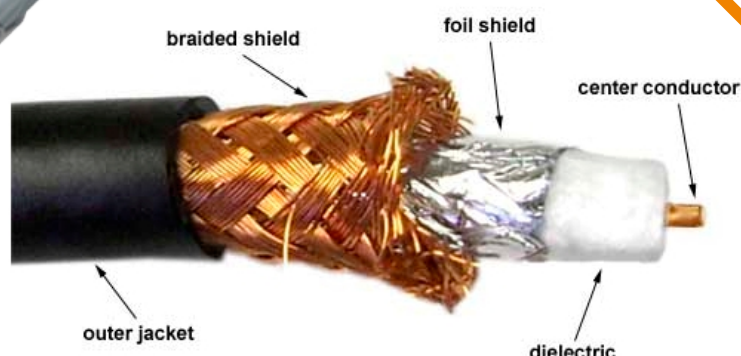
Thanks to its Halogen free, Flame Retardant and Low Smoke Properties, These Cables are also Safe to Care the Health of Inhabitants in Case of Fire.

SOLAR DC CABLE

No. of Cores & Nom. Cross Section Area(sq mm)	Overall DIA Nom. in (mm)	Current Carring Capacity (Amp)	Approx. Weight (kg/km)	MV/AM
1X 2.5	4.5	41	39	19
1 X 4.0	5.2	55	57	12
1 X 6.0	5.9	70	79	7.9
1 X 10.0	6.9	98	122	4.7
1 X16.0	8.3	132	181	2.9
1 X 25.0	9.7	176	273	1.85
1 X 35.0	11	218	364	1.35
1 X 50.0	13.2	276	520	1
1 X 70	15.4	347	713	0.73
1 X 95	17.4	416	930	0.56
1 X120	20.1	488	1191	0.47
1 X 150	22.5	566	1514	0.41
1 X 185	26	644	1828	0.36
1 X 240	26.8	775	2324	0.31



COAXIAL CABLE



CO-AXIAL CABLES

Standard : Mil-C-17, BS 2316

Solid Copper Center Conductor DIE Electric of Solid PE or Foam PE.

Aluminum foil Shielded, Bare Copper or tinned Copper Braiding 95% Coverage.

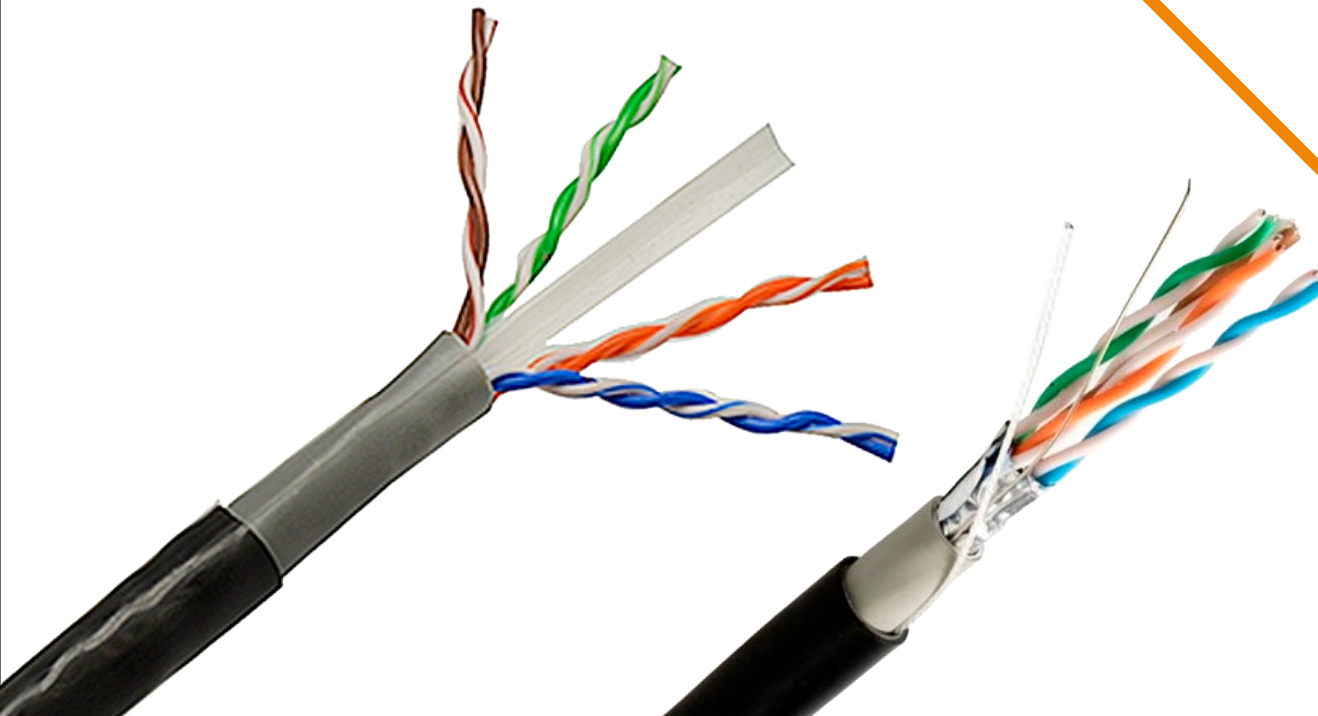
Overall Sheath mainly used for Transmission R.F. Signal the Co-axial Cables are not only the most used Cables but the Least Expensive one in the Market.

This Cables are very Reliable, Convenient and have easily Maintained Way of Transferring Images in a CCTV System.

Co-axial Cables is used as a Transmission Line for Digital Video Signal, in Applications Such as Connecting Radio Transmitters and Receivers with their Antennas, Computer Network (Internet Connections) and Distributing Cable Television Signals.

C0-AXIAL, CABLE

Cable Type	Conductor Size (mm)	DIA Over Dielectric (mm)	Approx Overall DIA (mm)	Impedance (Ohms)	Attenuation at 200mhz(DB/100m	Max. R.F. Operating Voltage (kv)	Capacitance PF/FT
RG-59 B/U	0.58	3.7	6.1	75	16	2.3RMS	21.1
RG-59 /U	0.63	3.7	6.2	73	16	2.3 RMS	20.6
RG-6/U	1.04	4.6	7	75	9	2.7 RMS	20
RG-11	1.61	7.1	10.3	75	6	5.0 RMS	20.6
RG-11 A/U	7/0.41	7.25	10.3	75	11	5.0 RMS	20.6
RG-174 U	7/0.16	1.5	2.5	50	40	1.5 RMS	30.5
RG-58/U	0.81	2.95	5	53.5	23	1.9 RMS	28.8
RG-58 C/U	19/0.18	2.95	5	50	24	1.9 RMS	29.6
RG-223/U(RG-55 A/U)	0.06	2.95	5.5	50	20	1.9 RMS	19.8
RG-213/U(RG-8 A/U)	7/0.75	7.25	10.3	50	11	5.0 RMS	30.8
RG-214/U(RG-9B/U)	7/0.75	7.25	10.8	50	11	5.0 RMS	30.8



LAN CABLES

LAN/CAT Cables meet the Performance Requirement of ANSI/TIA/568.C.2 are most Suitable to Voice, Data, Video low Voltage Control and all LAN Topologies Including Horizontal and Vertical Distribution Plenum and riser.

Standards : ANSI /TIA/568.C.2 /ISO/IEC11801

General Technical Particulars

Conductor : 23 AWG Bare Solid Copper

General Element : PE with Cross Separator

Nom. Dia of Conductor : 5.7 mm

Insulation : High Density Polyethylene

No. of Pairs : 4 Pairs (Pairs Twisted Together)

RIP Cord : Provided

Outer Sheath : FR PVC/ LSZH

Nom. Overall Dia : 5.91 mm +/- 0.01mm

Packaging Length : 305 Mtrs. (1000 Feet)

Bending Radius : < 4x Cable Diameter at -20°C +/- 1°C

Pulling Force : 25.35 LBS

Operating Temperature: (-20°C to +70°C)

Temperature Range : (-20°C to +70°C)

Core Colour : Pair 1 : White Blue
Pair 2 : White Orange
Pair 3 : White Green
Pair 4 : White Brown

Electrical Properties: -

Conductor Resistance : 9.38ohm (for 100m)

Mutual Capacitance : 5.6nf (for 100m)

Resistance Unbalance (%) : Max 5

Capacitance Unbalance : 330pf (for 100m)

Delay Skew (for 100m) : 45ns

Propagation Delay Skew: 536bs (for 100m)

Current Rating : Max 1.5A

Operating Voltage : 72V

Dielectric Strength : 1000 V RMS



OPTIC FIBRE CABLES

Optic Fibre Cables Cater to High Speed Data, Voice and Video Networks. Manufactured to Withstand adverse Conditions and Provides Maximum Fibre Safety.

Our Cables Offers Good Surface, Chemical, Rodent and Water Resistance.

Due to Use of High-class Raw Material. It Prevents EMI, Current Conduit and Increases Immunity to Lightning Strikes.

Outside Plant Cables:

Cable Construction : CATV Unitube Design

No of Fibres Per Tube: 2, 4,6,8 12 upto 144 in single mode and multimode fibers.

Core Construction : S-Z, Stranded Multi Tube or Unitube.

Strength Element : FRP/ Aramoured Yarn/Glass Yarn/ Solid Steel Wire/ Steel Tape

Jacket Option : Single/Dual Jacket in UV Stabilized, HDPE/PU/LSZH/NYLON.

FRP : Fibre Reinforced Plastic

SW : Steel Wire

Operating Temperature: -20 to 70 Deg C.

Cable Diameter (Nom.) : 6 to 10mm +/- 0.25 mm

Weight of the Cable Kg/km : 35kg +/- 5kg

Standard Length in k.m : 1.5 to 3.5 Km

Max Bending Radius : 20 D, D+ Cable Diameter

Duct Cables

Direct Buried armoured Cables

Aerial Cables

Shallow Water Cables

Hybrid & Composite Cables

Tactical Cables



Distribution Cables :

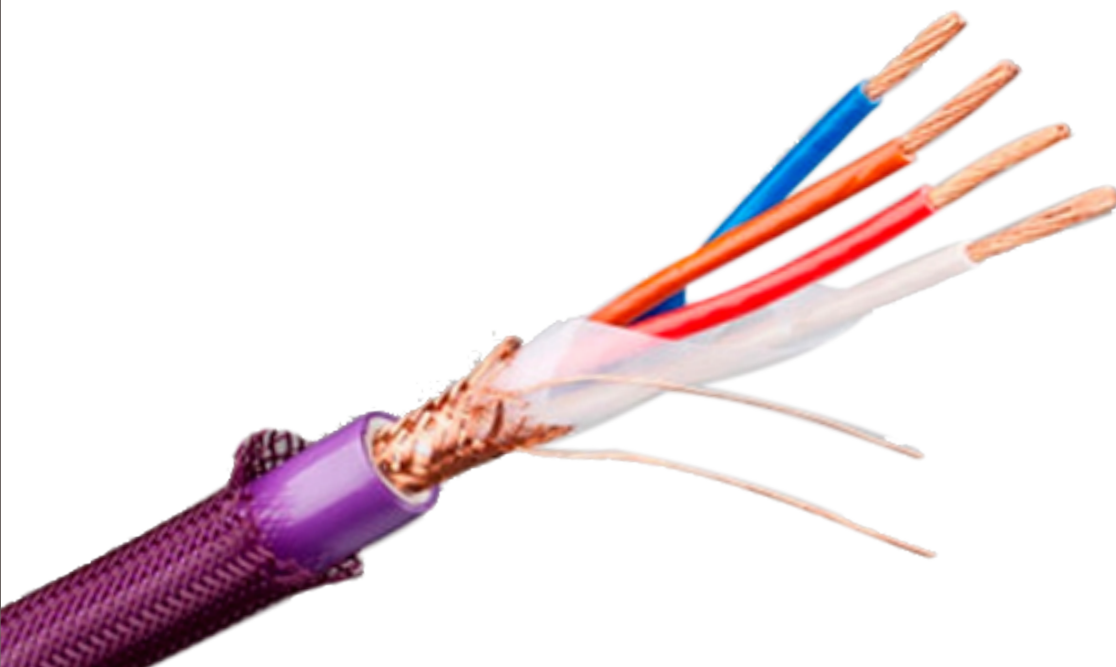
Tight Buffered Cables are Made for Premise Application. The Fibres Coated Typically 900 Microns are Flexible, easy to Handle and Simple to Install. They are Dry Core so the Connectors can be Terminated Directly on to the Fibre. Most Suitable for Backbone and Horizontal Applications.

- Generic Specifics** :
- Fibre to Core Counts** : Upto 72 in Single Mode & Multimode Fibres
- Core Construction** : Distribution Style And Multi Core Rugged Break-out Style.
- Strength Element** : Aramid Yarn/Glass Yarn
- Jacket Option** : Single/Dual Jacket in LSZH.
- Operating Range** : 30°C to +70°C

FTTH/Blown Fibre : Fibre to The Home (FTTH) Applications are Rapidly Increasing, we Believe for Inside Building Laying The Cables Design has to Focus Solely on Flexibility Mechanical Reliability to Survive Such an Application. Small Cables Size, Light Cable Weight, Easy to Install are Typical Features of Flexi Blown Cables.

- Generic Specifics** : Fibre to Core Counts: Upto 2 to 12 Cores in Single Mode & Multimode Fibres
- Core Construction** : Zip Type Dry /Tight Buffered or Unitube..
- Strength Element** : FRP/Aramid Yarn/Solid Steel Wire
- Jacket Option** : Single/Dual Jacket in UV Stabilized, HDPE/PU/ LSZ/ Nylon Others.
- Operating Range** : 30° to +70°C

Duct Blown Cables
Premise Cables
Fig-8 Style Construction
Composite Fibre Cables



PTFE WIRES & CABLE

Properties of PTFE -:

1. High Operating Temperature -65°C to 260°C
2. Low Dielectric Constant
3. Low Dissipation Factor (0.0003)
4. High Surface Resistance
5. Fair Corona Resistance
6. Inert to Chemical Attack
7. Moisture Proof
8. Flame Proof
9. Inert to Fungus and Mould Growth
10. Suitable for very wide frequency Range (DC to Above 10000 MHZ)
11. Excellent Flex Life and Totally unaffected by outdoors exposure to Unlimited Period

Standard : "MIL W / JSS 51034"

Voltage Grade: Upto 1000V

Conductor : Silver / Nickel/Tin Plated/Bare Copper

Insulation : PTFE/FEP

Screen : Annealed Bare Copper (ABC) /Silver Plated Copper (SPC)

Outer Sheath : PTFE/FEP

Temperature Rating: -65 to $+260^{\circ}\text{C}$

Heat Resisting Test : 290°C for 96 Hrs

High Voltage Test : Spark test/ Die Electric Test

Flammability Test: Flame test for 1 Minute

Cold Bend Test : (-65°C) for 4 Hrs

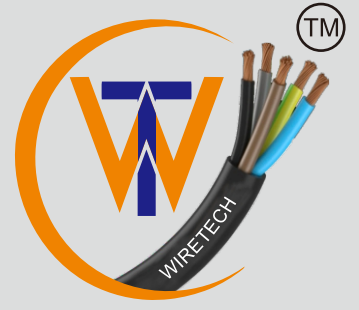
Insulation Test : Core to Core High Voltage Insulation Testing
Core to Braid High Voltage Insulation Testing

Application : Defence Equipment, Railways, Aeronautics, Radar, Satellites,
Navigations, Atomic Energy, Telecommunication Equipment, Heat
Sensing Leads etc.



PTFE (TEFLON) INSULATED SILVER, TIN & NICKLE PLATED COPPER WIRES

Wire Size (AWG)	Conductor DIA (mm)	Cross Section Area (sq mm)	Elongation % (min)	Type ET 250V AC		Type E 600V AC		Type E 1000V AC	
				Min	Max	Min	Max	Min	Max
32 (1)	0.2	0.0324	5.5			0.64	0.86	0.86	1.07
30 (1)	0.25	0.0507	9	0.51	0.61	0.67	0.86	0.91	1.12
28 (1)	0.32	0.0806	9	0.58	0.69	0.74	0.94	0.99	1.19
26 (1)	0.4	0.1282	9	0.66	0.76	0.81	1.02	1.07	1.27
24 (1)	0.51	0.2047	15	0.76	0.86	0.91	1.12	1.17	1.37
22 (1)	0.64	0.3243	20	0.86	1.02	1.04	1.27	1.3	1.52
20 (1)	0.81	0.5168	20	1.07	1.17	1.22	1.42	1.47	1.68
30/7/38	0.31	0.0568	5.5	0.56	0.66	0.71	0.91	0.97	1.17
28/7/36	0.38	0.0887	5.5	0.64	0.74	0.79	0.99	1.04	1.25
26/07/1934	0.48	0.1409	9	0.74	0.84	0.89	1.09	1.14	1.35
24/7/32	0.61	0.2207	9	0.86	0.97	1.02	1.22	1.27	1.47
22/07/1930	0.76	0.3547	13.5	1.02	1.12	1.17	1.37	1.42	1.63
20/7/28	0.97	0.563	13.5	1.22	1.32	1.37	1.58	1.63	1.83
18/7/26	1.22	0.8969	13.5			1.63	1.88	1.88	2.13
26/19/38	0.51	0.154	5.5	0.74	0.84	0.89	1.09	1.14	1.35
24/19/36	0.64	0.2407	9	0.86	0.97	1.02	1.22	1.27	1.47
22/19/34	0.81	0.382	9	1.02	1.12	1.17	1.37	1.42	1.63
20/19/32	1.02	0.563	9	1.22	1.32	1.37	1.58	1.63	1.83
18/19/30	1.27	0.9627	13.5			1.63	1.88	1.88	2.13
16/19/29	1.45	1.2293	13.5			1.85	2.21	2.11	2.41
15/19/28	1.6	1.5272	13.5			2	2.23	2.2	2.42
14/19/27	1.8	1.9412	13.5			2.24	2.59	2.49	2.9
13/19/26	2	2.3885	13.5			2.43	2.75	2.65	3.05
12/19/25	2.31	3.0848	13.5			2.72	3.07	2.97	3.38
11/19/24	2.5	3.732	13.5			2.91	3.26	3.16	3.56
10/19/22	3.2	6.1147	13.5					3.86	4.26
16/37/28	1.4	1.2	13.5			1.9	1.95	1.9	2.25
14/37/30	1.75	1.8886	13.5			2.25	2.37	2.35	2.65
12/37/28	2.24	2.9742	13.5			2.79	2.89	2.84	3.22
10/37/26	2.82	4.7397	13.5			3.23	3.58	3.48	3.89
8/133/29	4.29	8.6054	13.5					5.06	5.56
6/133/27	5.41	13.5889	13.5					6.2	6.93
4/133/25	6.75	21.59	13					7.75	8.4
2/133/23	8.55	33.9514	13					9.75	10.27
0/133/21	10.65	52.7741						11.85	12.8



SRI PADMAVATHI CABLES

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