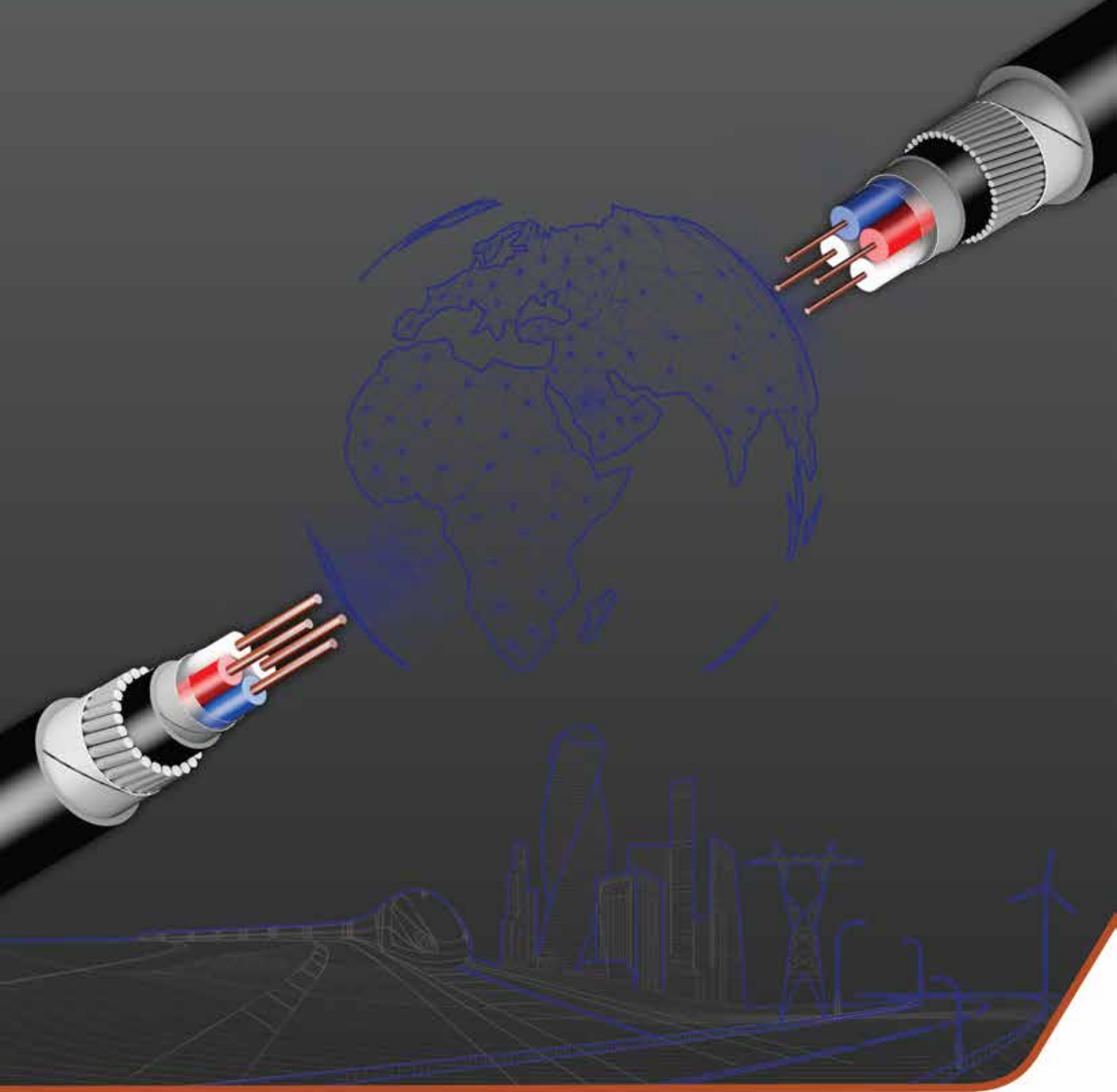


INSTRUMENTATION CABLES



مجموعة كابلات الرياض
Riyadh Cables Group

RIYADH CABLES

Currently standing at an impressive 1850000 square meters, Riyadh Cables' affiliates extend to 22 domestic/regional locations, including Riyadh/Saudi Arabia, United Arab Emirates and Iraq Republic. The company manufactures and supplies all types of wire and cables at its state-of-art facilities. Since its establishment in 1984, the company has always been keen on embracing a comprehensive quality management program for evaluating and monitoring all corrective and proactive action plans, bolstering its status as a pioneer in the Wire and Cable industry in the Middle East.

Our Main Resources:

- Facilities spread over 1,850,000M² across 22 locations.
- Team of 3500 employees.
- Turnover of USD 1.8 Billion (6 Billion SAR)
- Automated Business process with SAP ERP System
- Number #1 in sales in Middle East North Africa market.
- Number #4 in sales Worldwide.
- Having systems quality and product quality certifications, including but not limited to:
 - o ISO 9001:2015 (Quality Management System)
 - o ISO 14001:2015 (Environmental Management System)
 - o ISO 45001:2018 (Occupational health and safety management system)
 - o OHSAS 18001:2007 (Health and Safety Management System)
 - o SASO Quality Mark (The Saudi Standards, Metrology and quality organization)
 - o ESMA Quality Mark (The Emirates Authority for Standardization & Metrology)

We are committed to achieving continuous improvement of the products, by improving wire and cable design and manufacturing capabilities across all our product lines of Low Voltage, Medium Voltage and High Voltage cable up to 500KV, electric wire, overhead conductors, telephone – Copper and fiber optic cables, supported by in-house manufacture of 8.0 mm diameter Copper Rod, 9.5 mm diameter Aluminum Rod, PVC (polyvinyl chloride), low voltage XLPE(cross-linked polyethylene), LSHF (low smoke halogen free) and drums, and satisfy our market and customer requirements, based on our ability to manufacture and supply products conforming to, amongst others, the following standards:

- 1- BS (British Standard)
- 2- IEC (international Electro Technical Commission)
- 3- SASO (The Saudi Standards, Metrology and quality organization)
- 4- (STC)Saudi Telecom Company
- 5- VDE (Association of Electrical Engineering)
- 6- DIN (German Institute for standard)
- 7- ASTM (American Society for testing and material)

Our Group Companies:

We act locally and internationally through our following Group companies / subsidiaries:

- 1- Riyadh Cable Group Company.
- 2- Saudi Modern Company for Metal, cables and plastic industry.
- 3- Saudi Modern Company for specialized Electrical Cables and wire industry.
- 4- Saudi Modern Company for Telephone Cable Industry.
- 5- National Cables Industry (NCI) United Arab Emirate (UAE).
- 6- Al-Rowad Cables Company (Iraq).

Our Vision:

To be a major manufacturer of a broad range of electrical cables covering low, medium , high and extra high voltage cables

Our Mission:

Continuously growing through providing superior services and solutions to our products used worldwide in the fields of energy, general construction, oil & gas, renewables, industrial, defense, rail transport, , mining and other specialty industry verticals, by investing heavily in Research and developments, quality , System and human resources .

Our Values:

Our internal value built on four main pillars which is:

- 1 - People.
- 2 - System
- 3 - Quality
- 4 - After Sales Service.

With our above highlighted values, capabilities, expertise and strong track record, we strive to uphold our commitment of providing high quality products and services, in alignment with the latest technology developments, to our customers at all times, at same time we will keep our focus on steady and sustainable growth, innovation, quality of delivery, customer centric approach in achieving our goal to maintain and enhance our market presence and reputation in the years ahead, leveraging on our performance and success to date as the springboard for future achievements.

Development of Human Resources

Riyadh Cables is contributing to the process of human resource development in Saudi Arabia by attracting nationals to work in all function within the company .mentoring and training these precious human resources have contributed to the continual improvement of individuals and company performance. The management of Riyadh Cables has and ambitious development and training program geared to serve the customer and make Riyadh Cables the best.

Export

Riyadh Cables is more than able to satisfy the local market, with its strong infrastructure Riyadh Cables has established itself as a regional supplier, rapidly expanding it is interests outside Saudi Arabia.

In order to execute a competitive and successful exporting policy, the company has recruited an experienced team with the necessary international expertise. Market research has been conducted domestically and internationally, investigating numerous key factory such as geographical issue, demand, trend, prices, competition, channel of supple and customer needs. A promotion Campaign has been used to compliment the policy of Riyadh Cables as a regional supplier. At the heart of the successful export campaign has been Riyadh Cables ability to consistently supply high quality cables on time, to internationally accepted standards and at competitive prices.

Quality First

The mission of Riyadh Cables is based on the establishment of a strong technological base, continuous improvement maintaining high quality standards and delighted customers, from its beginning Riyadh Cables has been totally "Committed to Quality".

Research and development:

The foresight in understanding the future needs of the market as well as the technical expertise is an essential strategy at Riyadh Cables in its continuous journey of product improvement.

Customer Services:

At Riyadh Cables we believe that every customer is important and each one can depend on the special care we give to our customers.

INSTRUMENTATION/PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD UNSHIELDED.

Temperature rating	:	90 °C
Related Specification	:	Generally as per 34-SAMSS-913.
Application :	Cable can be used in cable tray, conduit or direct burial application for Instrumentation / process control, in dry or wet location.	
Conductor	:	Stranded annealed plain copper/tinned copper as per IEC 60228 class-2.
Insulation	:	XLPE
Pair colour code	:	White and Black with pair number on white conductor.
Triad Colour code :	White, Black and red with triad number on white conductor.	
Twisting	:	All pairs/triads are twisted to counter electromagnetic noise.
Assembly	:	Twisted pairs/triads are cabled with non-hygroscopic fillers if necessary and the entire assembly is covered with a polyester tape.
Jacket	:	Extruded black PVC Jacket shall be flame retardant as per IEC 60332-3-24, Oil and Sun-light resistant.

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD UNSHIELDED.**

Standard cable dimensions:

Pairs.

Size (mm ²)	Pairs	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
1.0	1	7x0.43	0.40	1	6.4	49.29
	2	7x0.43	0.40	1.2	9.4	93.99
	3	7x0.43	0.40	1.2	10	119.58
	4	7x0.43	0.40	1.5	11.5	163.22
	6	7x0.43	0.40	1.5	13.4	222.62
	8	7x0.43	0.40	1.5	15	278.68
	10	7x0.43	0.40	1.8	17.4	361
	12	7x0.43	0.40	1.8	18	410.29
	16	7x0.43	0.40	1.8	19.8	515.75
	20	7x0.43	0.40	1.8	22	625.16
	24	7x0.43	0.40	2.1	24.9	769.89

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD UNSHIELDED.**

Size (mm ²)	Pairs	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
1.5	1	7x0.52	0.40	1.0	6.9	62
	2	7x0.52	0.40	1.5	11	135
	3	7x0.52	0.40	1.5	11.6	171
	4	7x0.52	0.40	1.5	12.6	211
	6	7x0.52	0.40	1.5	14.9	292
	8	7x0.52	0.40	1.8	17.2	392
	10	7x0.52	0.40	1.8	19.3	476
	12	7x0.52	0.40	1.8	19.9	545
	16	7x0.52	0.40	1.8	22	692
	20	7x0.52	0.40	2.1	25.1	879
	24	7x0.52	0.40	2.1	27.7	1034

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD UNSHIELDED.**

Size (mm ²)	Pairs	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
2.5	1	7x0.66	0.40	1.2	8.2	91
	2	7x0.66	0.40	1.5	12.3	179
	3	7x0.66	0.40	1.5	13	233
	4	7x0.66	0.40	1.5	14.2	292
	6	7x0.66	0.40	1.5	16.9	410
	8	7x0.66	0.40	1.8	19.5	550
	10	7x0.66	0.40	1.8	22	671
	12	7x0.66	0.40	1.8	22.7	776
	16	7x0.66	0.40	2.1	25.8	1033
	20	7x0.66	0.40	2.1	28.7	1260
	24	7x0.66	0.40	2.1	31.8	1488

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD UNSHIELDED.**

Triads

Size (mm ²)	Triads	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
1.0	1	7x0.43	0.40	1.0	6.7	62.13
	2	7x0.43	0.40	1.5	11	137.33
	3	7x0.43	0.40	1.5	11.6	175.4
	4	7x0.43	0.40	1.5	12.6	216.4
	6	7x0.43	0.40	1.5	14.9	300.13
	8	7x0.43	0.40	1.8	17.2	404.31
	10	7x0.43	0.40	1.8	19.3	489.14
	12	7x0.43	0.40	1.8	20	561.49
	16	7x0.43	0.40	1.8	22.1	713.76
	20	7x0.43	0.40	2.1	25.1	906.09
	24	7x0.43	0.40	2.1	27.7	1066.73

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD UNSHIELDED.**

Size (mm ²)	Triads	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
1.5	1	7x0.52	0.40	1.0	7.3	80
	2	7x0.52	0.40	1.5	12.1	175
	3	7x0.52	0.40	1.5	12.8	228
	4	7x0.52	0.40	1.5	13.9	284
	6	7x0.52	0.40	1.5	16.5	400
	8	7x0.52	0.40	1.8	19	537
	10	7x0.52	0.40	1.8	21.5	655
	12	7x0.52	0.40	1.8	22.2	756
	16	7x0.52	0.40	1.8	24.6	971
	20	7x0.52	0.40	2.1	28	1230
	24	7x0.52	0.40	2.1	31	1453

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD UNSHIELDED.**

Size (mm ²)	Triads	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
2.5	1	7x0.66	0.40	1.2	8.6	118
	2	7x0.66	0.40	1.5	13.6	238
	3	7x0.66	0.40	1.5	14.4	318
	4	7x0.66	0.40	1.5	15.8	402
	6	7x0.66	0.40	1.8	19.4	599
	8	7x0.66	0.40	1.8	21.7	767
	10	7x0.66	0.40	2.1	25.2	977
	12	7x0.66	0.40	2.1	26	1133
	16	7x0.66	0.40	2.1	28.8	1458
	20	7x0.66	0.40	2.1	32.1	1787
	24	7x0.66	0.40	2.4	36.2	2170

INSTRUMENTATION/PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD OVERALL SHIELDED.

Temperature rating : 90 °C

Related Specification: Generally as per 34-SAMSS-913.

Application Cable can be used in cable tray, conduit or direct burial application for Instrumentation / process control, in dry or wet location.

Conductor : Stranded annealed plain copper/tinned copper as per IEC 60228 class-2.

Insulation : XLPE

Pair colour code : White and Black with pair number on white conductor.

Triad Colour code : White, Black and Red with triad number on white conductor.

Twisting : All pairs/triads are twisted to counter electromagnetic noise.

Overall Shielding : Twisted pairs/triads are cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminum polyester tape and a tinned copper drain wire.

Jacket : Extruded black PVC Jacket shall be flame retardant as per IEC 60332-3-24, Oil and Sun-light resistant

Standard cable dimensions:

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD OVERALL SHIELDED.**

Pairs.

Size (mm ²)	Pairs	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
1.0	1	7x0.43	0.40	1	6.6	57.11
	2	7x0.43	0.40	1.2	9.6	103.35
	3	7x0.43	0.40	1.5	10.8	144.21
	4	7x0.43	0.40	1.5	11.7	173.59
	6	7x0.43	0.40	1.5	13.6	233.98
	8	7x0.43	0.40	1.5	15.2	290.83
	10	7x0.43	0.40	1.8	17.6	374.26
	12	7x0.43	0.40	1.8	18.2	423.93
	16	7x0.43	0.40	1.8	20	530.32
	20	7x0.43	0.40	1.8	22.2	640.84
	24	7x0.4 ³	0.40	2.1	25.1	787.0

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD OVERALL SHIELDED.**

Size (mm ²)	Pairs	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
1.5	1	7x0.52	0.40	1.2	7.5	77
	2	7x0.52	0.40	1.5	11.2	145
	3	7x0.52	0.40	1.5	11.8	182
	4	7x0.52	0.40	1.5	12.8	222
	6	7x0.52	0.40	1.5	15	304
	8	7x0.52	0.40	1.8	17.4	407
	10	7x0.52	0.40	1.8	19.5	490
	12	7x0.52	0.40	1.8	20.1	560
	16	7x0.52	0.40	1.8	22.2	708
	20	7x0.52	0.40	2.1	25.3	896
	24	7x0.52	0.40	2.1	27.9	1053

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD OVERALL SHIELDED.**

Size (mm ²)	Pairs	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
2.5	1	7x0.66	0.40	1.2	8.4	100
	2	7x0.66	0.40	1.5	12.5	190
	3	7x0.66	0.40	1.5	13.2	245
	4	7x0.66	0.40	1.5	14.4	304
	6	7x0.66	0.40	1.8	17.7	448
	8	7x0.66	0.40	1.8	19.7	566
	10	7x0.66	0.40	1.8	22.2	687
	12	7x0.66	0.40	2.1	23.6	827
	16	7x0.66	0.40	2.1	26	1050
	20	7x0.66	0.40	2.1	28.9	1279
	24	7x0.66	0.40	2.1	31.9	1509

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD OVERALL SHIELDED.**

Triads

Size (mm ²)	Triads	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
1.0	1	7x0.43	0.40	1	6.9	70.12
	2	7x0.43	0.40	1.5	11.2	147.45
	3	7x0.43	0.40	1.5	11.8	185.84
	4	7x0.43	0.40	1.5	12.8	227.34
	6	7x0.43	0.40	1.5	15.1	312.22
	8	7x0.43	0.40	1.8	17.4	417.56
	10	7x0.43	0.40	1.8	19.5	503.47
	12	7x0.43	0.40	1.8	20.1	576.13
	16	7x0.43	0.40	1.8	22.3	730.72
	20	7x0.43	0.40	2.1	25.3	923.32
	24	7x0.42	0.40	2.1	27.3	1086.29

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD OVERALL SHIELDED.**

Size (mm ²)	Triads	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
1.5	1	7x0.52	0.40	1.2	7.9	96
	2	7x0.52	0.40	1.5	12.2	185
	3	7x0.52	0.40	1.5	13	239
	4	7x0.52	0.40	1.5	14.1	297
	6	7x0.52	0.40	1.8	17.3	438
	8	7x0.52	0.40	1.8	19.3	553
	10	7x0.52	0.40	1.8	21.7	671
	12	7x0.52	0.40	1.8	22.4	773
	16	7x0.52	0.40	2.1	25.4	1026
	20	7x0.52	0.40	2.1	28.2	1248
	24	7x0.52	0.40	2.1	31.1	1473

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD OVERALL SHIELDED.**

Size (mm ²)	Triads	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
2.5	1	7x0.66	0.40	1.2	8.8	127
	2	7x0.66	0.40	1.5	13.8	249
	3	7x0.66	0.40	1.5	14.6	330
	4	7x0.66	0.40	1.8	16.6	438
	6	7x0.66	0.40	1.8	19.6	614
	8	7x0.66	0.40	1.8	21.9	784
	10	7x0.66	0.40	2.1	25.4	994
	12	7x0.66	0.40	2.1	26.2	1151
	16	7x0.66	0.40	2.1	29	1477
	20	7x0.66	0.40	2.4	32.9	1854
	24	7x0.66	0.40	2.4	36.4	2193

INSTRUMENTATION/PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED.

Temperature rating	: 90 °C
Related Specification	: Generally as per 34-SAMSS-913.
Application :	Cable can be used in cable tray, conduit or direct burial application for Instrumentation / process control, in dry or wet location.
Conductor	: Stranded annealed plain copper/tinned copper as per IEC 60228 class-2
Insulation	: XLPE
Pair colour code	: White and Black with pair number on white conductor.
Triad Colour cod	: White, Black and Red with triad number on white conductor.
Twisting	: All pairs/triads are twisted to counter electromagnetic noise.
Individual & Overall Shielding	: Each pair/triad is shielded with aluminum polyester tape and a tinned copper drain wire for maximum electrostatic noise and crosstalk rejection. All pair/triad shields are electrically isolated from each other. Individually shielded pairs/triads cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminum polyester tape and a tinned copper drain wire.
Jacket	: Extruded black PVC.Jacket shall be flame retardant as per IEC 60332-3-24, Oil and sun-light resistant.

Standard cable dimensions:

Pairs

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED.**

Size (mm ²)	Pairs	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
1.0	2	7x0.43	0.40	1.5	11.7	147.04
	3	7x0.43	0.40	1.5	12.4	183.53
	4	7x0.43	0.40	1.5	13.5	223.34
	6	7x0.43	0.40	1.5	15.9	305.4
	8	7x0.43	0.40	1.8	18.3	407.57
	10	7x0.43	0.40	1.8	20.6	491.41
	12	7x0.43	0.40	1.8	21.3	561.2

Size (mm ²)	Pairs	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
1.5	2	7x0.52	0.40	1.5	12.7	176
	3	7x0.52	0.40	1.5	13.5	223
	4	7x0.52	0.40	1.5	14.7	275
	6	7x0.52	0.40	1.8	18	404
	8	7x0.52	0.40	1.8	20.1	507
	10	7x0.52	0.40	1.8	22.7	614
	12	7x0.52	0.40	2.1	24	740

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED.**

Size (mm ²)	Pairs	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
2.5	2	7x0.66	0.40	1.5	14.2	223
	3	7x0.66	0.40	1.5	15.1	290
	4	7x0.66	0.40	1.8	17.1	385
	6	7x0.66	0.40	1.8	20.2	532
	8	7x0.66	0.40	1.8	22.6	674
	10	7x0.66	0.40	2.1	26.2	860
	12	7x0.66	0.40	2.1	27.1	988

INSTRUMENTATION/PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED.

Triads

Size (mm ²)	Triads	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
1.0	2	7x0.43	0.40	1.5	12.8	178.68
	3	7x0.43	0.40	1.5	13.6	227.33
	4	7x0.43	0.40	1.5	14.8	280.15
	6	7x0.43	0.40	1.8	18.1	411.80
	8	7x0.43	0.40	1.8	20.2	516.95
	10	7x0.43	0.40	1.8	22.8	627.81
	12	7x0.43	0.40	2.1	24.2	754.4

Size (mm ²)	Triads	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
1.5	2	7x0.52	0.40	1.5	14	219
	3	7x0.52	0.40	1.5	14.8	283
	4	7x0.52	0.40	1.8	16.8	377
	6	7x0.52	0.40	1.8	19.8	520
	8	7x0.52	0.40	1.8	22.2	658
	10	7x0.52	0.40	2.1	25.8	839
	12	7x0.52	0.40	2.1	26.6	964

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED.**

Size (mm ²)	Triads	Strands X diameterX mm	Insulation thickness mm	Nominal Jacket thickness	Approx OD mm	Approx Weight (kg/km)
2.5	2	7x0.66	0.40	1.5	15.6	285
	3	7x0.66	0.40	1.8	17.2	402
	4	7x0.66	0.40	1.8	18.8	502
	6	7x0.66	0.40	1.8	22.3	703
	8	7x0.66	0.40	2.1	25.7	936
	10	7x0.66	0.40	2.1	29.1	1142
	12	7x0.66	0.40	2.1	30.1	1321

INSTRUMENTATION/PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD OVERALL SHIELDED ARMORED.

Temperature rating : 90 °C

Related Specification: Generally as per-34 SAMSS 913.

Application : Cable can be used in cable tray, conduit or direct burial application for Instrumentation / process control, in dry or wet location.

Conductor : Stranded annealed plain copper/tinned copper as per IEC 60228 class-2.

Insulation : XLPE

Pair colour code : White and Black with pair number on white conductor.

Triad Colour code : White, Black and Red with triad number on white conductor.

Twisting : All pairs/triads are twisted to counter electromagnetic noise.

Overall

Shielding : Twisted pairs/triads are cabled with non - hygroscopic fillers if necessary and the entire assembly is shielded with aluminum polyester tape and a tinned copper drain wire.

InnerJacket : Extruded black PVC Jacket shall be flame retardant as per IEC 60332-3-24.

Armour : Round galvanized steel wires is applied with 90% minimum coverage.

Outer Jacket : Extruded black PVC Jacket shall be flame retardant as per IEC 60332-3-24, Oil and sun-light resistant.

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD OVERALL SHIELDED ARMORED.**

Standard cable dimensions:

Pairs

Size (mm ²)	Pairs	Strands X diameterX mm	Insulation thickness mm	Nominal inner Jacket thickness mm	Inner jacket OD (approx.) mm	Armor wire dia(mm)	Armor wire OD mm	Outer jacket thickness mm	Outer jacket OD (approx.) mm	Approx Weight (kg/km)
1.0	1	7x0.43	0.40	1.0	6.6	0.8	8.2	1.8	11.8	246.56
	2	7x0.43	0.40	1.2	9.6	0.8	11.2	1.8	14.8	362.42
	3	7x0.43	0.40	1.5	10.8	1.25	13.3	1.8	16.9	538.87
	4	7x0.43	0.40	1.5	11.7	1.25	14.2	1.8	17.8	595.46
	6	7x0.43	0.40	1.5	13.6	1.25	16.1	1.8	19.7	716.57
	8	7x0.43	0.40	1.5	15.2	1.25	17.7	1.8	21.3	820.51
	10	7x0.43	0.40	1.8	17.6	1.6	20.8	2.1	25.0	1147.14
	12	7x0.43	0.40	1.8	18.2	1.6	21.4	2.1	25.6	1217.71
	16	7x0.43	0.40	1.8	20.0	1.6	23.2	2.1	27.4	1394.65
	20	7x0.43	0.40	1.8	22.2	1.6	25.4	2.1	29.6	1588.38
	24	7x0.43	0.40	2.1	25.1	1.6	28.3	2.4	33.1	1891.99

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD OVERALL SHIELDED ARMORED.**

Size (mm ²)	Pairs	Strands X diameterX mm	Insulation thickness mm	Nominal inner Jacket thickness mm	Inner jacket OD (approx.) mm	Armor wire dia(mm)	Armor wire OD mm	Outer jacket thickness mm	Outer jacket OD (approx.) mm	Approx Weight (kg/km)
1.5	1	7x0.52	0.40	1.2	7.5	0.8	9.1	1.8	12.7	288.77
	2	7x0.52	0.40	1.5	11.2	1.25	13.7	1.8	17.3	551.60
	3	7x0.52	0.40	1.5	11.8	1.25	14.3	1.8	17.9	607.71
	4	7x0.52	0.40	1.5	12.8	1.25	15.3	1.8	18.9	678.85
	6	7x0.52	0.40	1.5	15.0	1.25	17.5	1.8	21.1	830.14
	8	7x0.52	0.40	1.8	17.4	1.6	20.6	2.1	24.8	1171.02
	10	7x0.52	0.40	1.	19.5	1.6	22.7	2.1	26.9	1335.14
	12	7x0.52	0.40	1.8	20.1	1.6	23.3	2.1	27.5	1428.90
	16	7x0.52	0.40	1.8	22.2	1.6	25.4	2.1	29.6	1657.18
	20	7x0.52	0.40	2.1	25.3	2	29.3	2.4	34.1	2223.77
	24	7x0.52	0.40	2.1	27.9	2	31.9	2.4	36.7	2502.11

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD OVERALL SHIELDED ARMORED.**

Size (mm ²)	Pairs	Strands X diameterX mm	Insulation thickness mm	Nominal innerJacket thickness mm	Inner jacket OD (approx.) mm	Armor wire dia(mm)	Armor wire OD mm	Outer jacket thickness mm	Outer jacket OD (approx.) mm	Approx Weight (kg/km)
2.5	1	7x0.66	0.40	1.2	8.4	0.8	10.0	1.8	13.6	330.02
	2	7x0.66	0.40	1.5	12.5	1.25	15.0	1.8	18.6	638.06
	3	7x0.66	0.40	1.5	13.2	1.25	15.7	1.8	19.3	715.50
	4	7x0.66	0.40	1.5	14.4	1.25	16.9	1.8	20.5	810.58
	6	7x0.66	0.40	1.8	17.7	1.6	20.9	2.1	25.1	1222.92
	8	7x0.66	0.40	1.8	19.7	1.6	22.9	2.1	27.1	1419.28
	10	7x0.66	0.40	1.8	22.2	1.6	25.4	2.1	27.1	1635.26
	12	7x0.66	0.40	2.1	23.6	1.6	26.8	2.1	31.0	1826.96
	16	7x0.66	0.40	2.1	26.0	2	30.0	2.4	34.8	2411.59
	20	7x0.66	0.40	2.1	28.9	2	32.9	2.4	37.7	2774.10
	24	7x0.66	0.40	2.1	31.9	2	35.9	2.4	40.7	3147.11

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD OVERALL SHIELDED ARMORED.**

Triads

Size (mm ²)	Triads	Strands X diameterX mm	Insulation thickness mm	Nominal inner Jacket thickness mm	Inner jacket OD (approx.) mm	Armor wire dia(mm)	Armor wire OD mm	Outer jacket thickness mm	Outer jacket OD (approx.) mm	Approx Weight (kg/km)
1.0	1	7x0.43	0.40	1.0	6.9	0.8	8.5	1.8	12.1	267.14
	2	7x0.43	0.40	1.5	11.2	1.25	13.7	1.8	17.3	554.52
	3	7x0.43	0.40	1.5	11.8	1.25	14.3	1.8	17.9	611.99
	4	7x0.43	0.40	1.5	12.8	1.25	15.3	1.8	18.9	684.50
	6	7x0.43	0.40	1.5	15.1	1.6	18.3	1.8	21.9	955.22
	8	7x0.43	0.40	1.8	17.4	1.6	20.6	2.1	24.8	1182.25
	10	7x0.43	0.40	1.8	19.5	1.6	22.7	2.1	26.9	1349.13
	12	7x0.43	0.40	1.8	20.1	1.6	23.3	2.1	27.5	1445.60
	16	7x0.43	0.40	1.8	22.3	1.6	25.5	2.1	29.7	1681.47
	20	7x0.43	0.40	2.1	25.3	1.6	28.5	2.1	33.3	2038.11
	24	7x0.43	0.40	2.1	27.9	2	31.9	2.4	36.7	2535.35

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD OVERALL SHIELDED ARMORED.**

Triads

Size (mm ²)	Triads	Strands X diameterX mm	Insulation thickness mm	Nominal inner Jacket thickness mm	Inner jacket OD (approx.) mm	Armor wire dia(mm)	Armor wire OD mm	Outer jacket thickness mm	Outer jacket OD (approx.) mm	Approx Weight (kg/km)
1.5	1	7x0.52	0.40	1.2	7.9	0.8	9.5	1.8	13.1	315.91
	2	7x0.52	0.40	1.5	12.2	1.25	14.7	1.8	18.3	625.52
	3	7x0.52	0.40	1.5	13.0	1.25	15.5	1.8	19.1	701.02
	4	7x0.52	0.40	1.5	14.1	1.25	16.6	1.8	20.2	793.63
	6	7x0.52	0.40	1.8	17.3	1.6	20.5	2.1	24.7	1197.12
	8	7x0.52	0.40	1.8	19.3	1.6	22.5	2.1	26.7	1388.38
	10	7x0.52	0.40	1.8	21.7	1.6	24.9	2.1	29.1	1598.64
	12	7x0.52	0.40	1.8	22.4	1.6	25.6	2.1	29.8	1728.60
	16	7x0.52	0.40	2.1	25.4	2	29.4	2.4	34.2	2357.54
	20	7x0.52	0.40	2.1	28.2	2	32.2	2.4	37.0	2710.71
	24	7x0.52	0.40	2.1	31.1	2	35.1	2.4	39.9	3074.09

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD OVERALL SHIELDED ARMORED.**

Size (mm ²)	Triads	Strands X diameterX mm	Insulation thickness mm	Nominal inner Jacket thickness mm	Inner jacket OD (approx.) mm	Armor wire dia(mm)	Armor wire OD mm	Outer jacket thickness mm	Outer jacket OD (approx.) mm	Approx Weight (kg/km)
2.5	1	7x0.66	0.40	1.2	8.8	0.8	10.4	1.8	14.0	367.66
	2	7x0.66	0.40	1.5	13.8	1.25	16.3	1.8	19.9	736.41
	3	7x0.66	0.40	1.5	14.6	1.25	17.1	1.8	20.7	842.39
	4	7x0.66	0.40	1.8	16.6	1.6	19.8	2.1	24.0	1170.05
	6	7x0.66	0.40	1.8	19.6	1.6	22.8	2.1	27.0	1461.51
	8	7x0.66	0.40	1.8	21.9	1.6	25.1	2.1	29.3	1720.74
	10	7x0.66	0.40	2.1	25.4	1.6	28.6	2.4	33.4	2111.01
	12	7x0.66	0.40	2.1	26.2	2	30.2	2.4	35.0	2520.39
	16	7x0.66	0.40	2.1	29.0	2	33.0	2.4	37.8	2977.46
	20	7x0.66	0.40	2.4	29.0	2	36.9	2.4	41.7	3536.22
	24	7x0.66	0.40	2.4	36.4	2.5	41.4	2.7	46.8	4475.96

INSTRUMENTATION/PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED.

Temperature rating : 90 °C

Related Specification: Generally as per 34-SAMSS-913.

Application : Cable can be used in cable tray, conduit or direct burial application for Instrumentation / process control, in dry or wet location.

Conductor : Stranded annealed plain copper/tinned copper as per IEC 60228 class-2.

Insulation : XLPE

Pair colour code : White and Black with pair number on white conductor.

Triad Colour code : White, Black and Red with triad number on white conductor.

Twisting : All pairs/triads are twisted to counter electromagnetic noise.

Individual & Overall

Shielding : Each pair/triad is shielded with aluminum polyester tape and a tinned copper drain wire for maximum electrostatic noise and crosstalk rejection. All pair/triad shields are electrically isolated from each other. Individually shielded pairs/triads cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminum polyester tape and a tinned copper drain wire.

Inner Jacket : Extruded black PVC Jacket shall be flame retardant as per IEC 60332-3-24.

Armour : Round galvanized steel wires is applied with 90% minimum coverage.

Outer Jacket : Extruded black PVC Jacket shall be flame retardant as per IEC 60332-3-24, Oil and sun-light resistant

INSTRUMENTATION/PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC). XLPE INSULATED MULTI PAIR/MULTI TRINDIVIDUAL & OVERALISHIELEDDED.

Pairs

Size (mm ²)	Pairs	Strands X diameterX mm	Insulation thickness mm	Nominal inner Jacket thickness mm	Inner jacket OD (approx.) mm	Armor wire dia(mm)	Armor wire OD mm	Outer jacket thickness mm	Outer jacket OD (approx.) mm	Approx Weight (kg/km)
1.0	2	7x0.43	0.40	1.5	11.7	1.25	14.2	1.8	17.8	570.56
	3	7x0.43	0.40	1.5	12.4	1.25	14.9	1.8	18.5	627.47
	4	7x0.43	0.40	1.5	13.5	1.25	16	1.8	19.6	700.47
	6	7x0.43	0.40	1.5	15.9	1.6	19.1	2.1	23.3	1011.62
	8	7x0.43	0.40	1.8	18.3	1.6	21.5	2.1	25.7	1207.57
	10	7x0.43	0.40	1.8	20.6	1.6	23.8	2.1	28	1379
	12	7x0.43	0.40	1.8	21.3	1.6	24.5	2.1	28.7	1475.23

Size (mm ²)	Pairs	Strands X diameterX mm	Insulation thickness mm	Nominal inner Jacket thickness mm	Inner jacket OD (approx.) mm	Armor wire dia(mm)	Armor wire OD mm	Outer jacket thickness mm	Outer jacket OD (approx.) mm	Approx Weight (kg/k m)
1.5	2	7x0.52	0.40	1.5	12.7	1.25	15.2	1.8	18.8	630.85
	3	7x0.52	0.40	1.5	13.5	1.25	16	1.8	19.6	701.28
	4	7x0.52	0.40	1.5	14.7	1.25	17.2	1.8	20.8	789.78
	6	7x0.52	0.40	1.8	18	1.6	21.2	2.1	25.4	1191.29
	8	7x0.52	0.40	1.8	20.1	1.6	23.3	2.1	27.5	1374.61
	10	7x0.52	0.40	1.8	22.7	1.6	25.9	2.1	30.1	1580.21
	12	7x0.52	0.40	2.1	24	1.6	27.2	2.1	31.4	1758.1

INSTRUMENTATION/PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).

XLPE INSULATED MULTI PAIR/MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED.

Pairs

Size (mm ²)	Pairs	Strands X diameterX mm	Insulation thickness mm	Nominal inner Jacket thickness mm	Inner jacket OD (approx.) mm	Armor wire dia(mm)	Armor wire OD mm	Outer jacket thickness mm	Outer jacket OD (approx.) mm	Approx Weight (kg/km)
2.5	2	7x0.66	0.40	1.5	14.2	1.25	16.7	1.8	20.3	723.25
	3	7x0.66	0.40	1.5	15.1	1.25	17.6	1.8	21.2	816.16
	4	7x0.66	0.40	1.8	17.1	1.6	20.3	2.1	24.5	1137
	6	7 x0.66	0.40	1.8	20.2	1.6	23.4	2.1	27.6	1403.53
	8	7x0.66	0.40	1.8	22.6	1.6	25.8	2.1	30	1638.44
	10	7x0.66	0.40	2.1	26.2	2	30.2	2.4	35	2229.87
	12	7x0.66	0.40	2.1	27.1	2	31.1	2.4	35.9	2398.7

Triads

Size (mm ²)	Triads	Strands X diameterX mm	Insulation thickness mm	Nominal inner Jacket thickness mm	Inner jacket OD (approx.) mm	Armor wire dia(mm)	Armor wire OD mm	Outer jacket thickness mm	Outer jacket OD (approx.) mm	Approx Weight (kg/km)
1.0	2	7x0.43	0.40	1.5	12.8	1.25	15.3	1.8	18.9	635.74
	3	7x0.43	0.40	1.5	13.6	1.25	16.1	1.8	19.7	707.50
	4	7x0.43	0.40	1.5	14.8	1.25	17.3	1.8	20.9	798.23
	6	7x0.43	0.40	1.8	18.1	1.6	21.3	2.1	25.5	1202.89
	8	7x0.43	0.40	1.8	20.2	1.6	23.4	2.1	27.6	1389.16
	10	7x0.43	0.40	1.8	22.8	1.6	26.0	2.1	30.2	1600.07
	12	7x0.43	0.40	2.1	24.2	1.6	27.4	2.1	31.6	1778.47

INSTRUMENTATION/PROCESS CONTROL CABLES

**POWER LIMITED TRAY CABLE 300VOLTS (TYPE PLTC).
XLPE INSULATED MULTI PAIR/MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED.**

Triads

Size (mm ²)	Triads	Strands X diameterX mm	Insulation thickness mm	Nominal inner Jacket thickness	Inner jacket OD (approx.)	Armor wire dia(mm)	Armor wire OD mm	Outer jacket thickness mm	Outer jacket OD (approx.) mm	Approx Weight (kg/km)
1.5	2	7x0.52	0.40	1.5	14	1.25	16.5	1.8	20.1	711.49
	3	7x0.52	0.40	1.5	14.8	1.25	17.3	1.8	20.9	802.15
	4	7x0.52	0.40	1.8	16.8	1.6	20	2.1	24.2	1117.83
	6	7x0.52	0.40	1.8	19.8	1.6	23	2.1	27.2	1378.19
	8	7x0.52	0.40	1.8	22.2	1.6	24.4	2.1	29.6	1607.58
	10	7x0.52	0.40	2.1	25.8	2	29.8	2.4	34.6	2188.5
	12	7x0.52	0.40	2.1	26.6	2	30.6	2.4	35.4	2353.18

Triads

Size (mm ²)	Triads	Strands X diameterX mm	Insulation thickness mm	Nominal inner Jacket thickness mm	Inner jacket OD (approx.) mm	Armor wire dia(mm)	Armor wire OD mm	Outer jacket thickness mm	Outer jacket OD (approx.) mm	Approx Weight (kg/km)
2.5	2	7x0.66	0.40	1.5	15.6	1.25	18.1	1.8	21.7	829.12
	3	7x0.66	0.40	1.8	17.2	1.6	20.4	2.1	24.6	1159.96
	4	7x0.66	0.40	1.8	18.8	1.6	22	2.1	26.2	1320.51
	6	7x0.66	0.40	1.8	22.3	1.6	25.5	2.1	29.7	1657
	8	7x0.66	0.40	2.1	25.7	2	29.7	2.4	34.5	2283.41
	10	7x0.66	0.40	2.1	29.1	2	33.1	2.4	37.9	2646.74
	12	7x0.66	0.40	2.1	30.1	2	34.1	2.4	38.9	2872.32

OUR PRODUCTS

Wires

Riyadh Cables manufactures wires, cords and wiring cables rated 300/300 V, 300/500 V, 600 V and 450/750 V to be used in the supply of electric power, lighting and internal wiring for residences and offices, and other similar environments of a non-industrial nature as specified in IEC 60227, BS 6004, UL 83 and BS EN 50525-3-41



Low Voltage Lead Sheathed

Low Voltage Lead Sheathed Cables are used mainly in the utilities and petrochemical industries owing to the lead sheathing's resistance to sulfides, water, oil and any corrosive chemicals found in the ground water



Medium Voltage Cables

Medium Voltage Cables support a voltage range between 6 kV and 36 kV, making them ideal for use in infrastructure, including the distribution and transmission of power



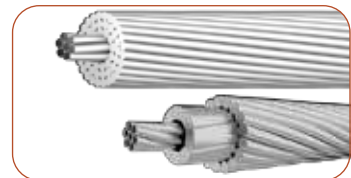
High Voltage & Extra High Voltage Cables

High voltage power cables (HV): Up to 380 kV, ideal for transmission systems. At Riyadh Cables, all XLPE insulations of our High and Extra High Voltage Cables are done pursuant to standards outlined by IEC 60840 and IEC 62067



Overhead Lines

We produce a range of Overhead Lines, all of which are manufactured as per the standards outlined in IEC, BS, BS EN and ASTM specifications, as applicable. Overhead conductors for use up to 500 kV



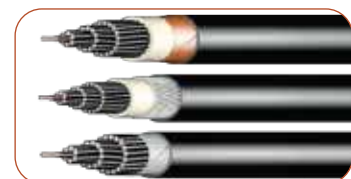
Fire Redundant Cables

Fire Survival Cable
(fire resistant, redundant and low smoke Halogen Free Cables)



Control Cables

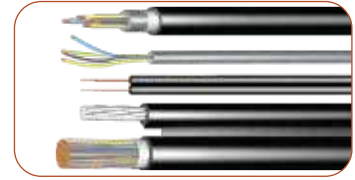
Control Cables are the cables of choice for control circuits. At Riyadh Cables, we offer a range of Control Cables, with XLPE or PVC insulation, with the option of armour and/or screening



OUR PRODUCTS

Copper Telephone Cables

We produce an extensive range of telephone cables, up to 3,600 pairs, in accordance with specifications supplied by Saudi Telecom, as well as numerous international standards bodies



Fiber Optic Cables

At Riyadh Cables, we produce Loose Tube Type Cables and Tight Buffer Types Cables for use as fiber optic cables for outdoor and indoor use respectively



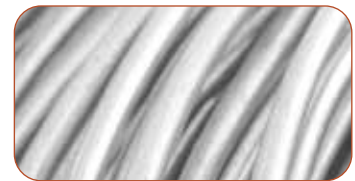
Copper Rods

We produce high purity copper rods of 8 mm diameter. These copper rods are used in producing conductors for all types of cables and metallic screens



Aluminium Rods

We produce high purity aluminium rods of 9.5 mm diameter. These aluminium rods are used in producing conductors for power cables and overhead line conductors and armouring



PVC Granules

We produce the PVC grades that are required for insulation and sheathing material in cables. Our PVC Granules are produced to the best quality specifications using state-of-the-art machines and the most advanced automatic mixing technology



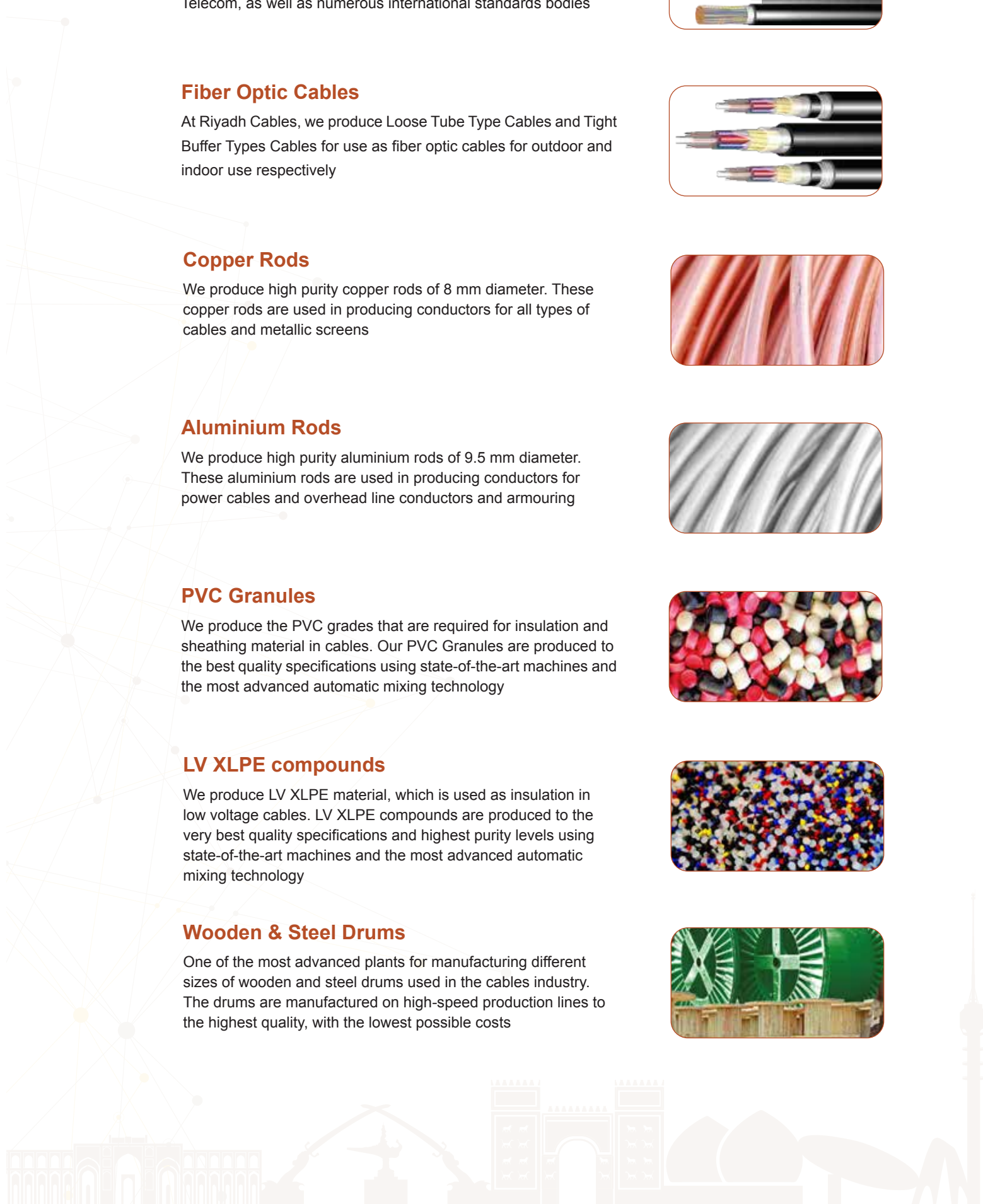
LV XLPE compounds

We produce LV XLPE material, which is used as insulation in low voltage cables. LV XLPE compounds are produced to the very best quality specifications and highest purity levels using state-of-the-art machines and the most advanced automatic mixing technology



Wooden & Steel Drums

One of the most advanced plants for manufacturing different sizes of wooden and steel drums used in the cables industry. The drums are manufactured on high-speed production lines to the highest quality, with the lowest possible costs





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