



**SVARN**

Inspired by possibilities

# Facilitating the fusion of power and progress

**POWER & CONTROL CABLES  
FOR NUCLEAR POWER PLANTS**



**SVARN GROUP**

TELECOM | AUTOMOTIVE | DEFENCE | RAILWAYS | POWER | PROJECTS



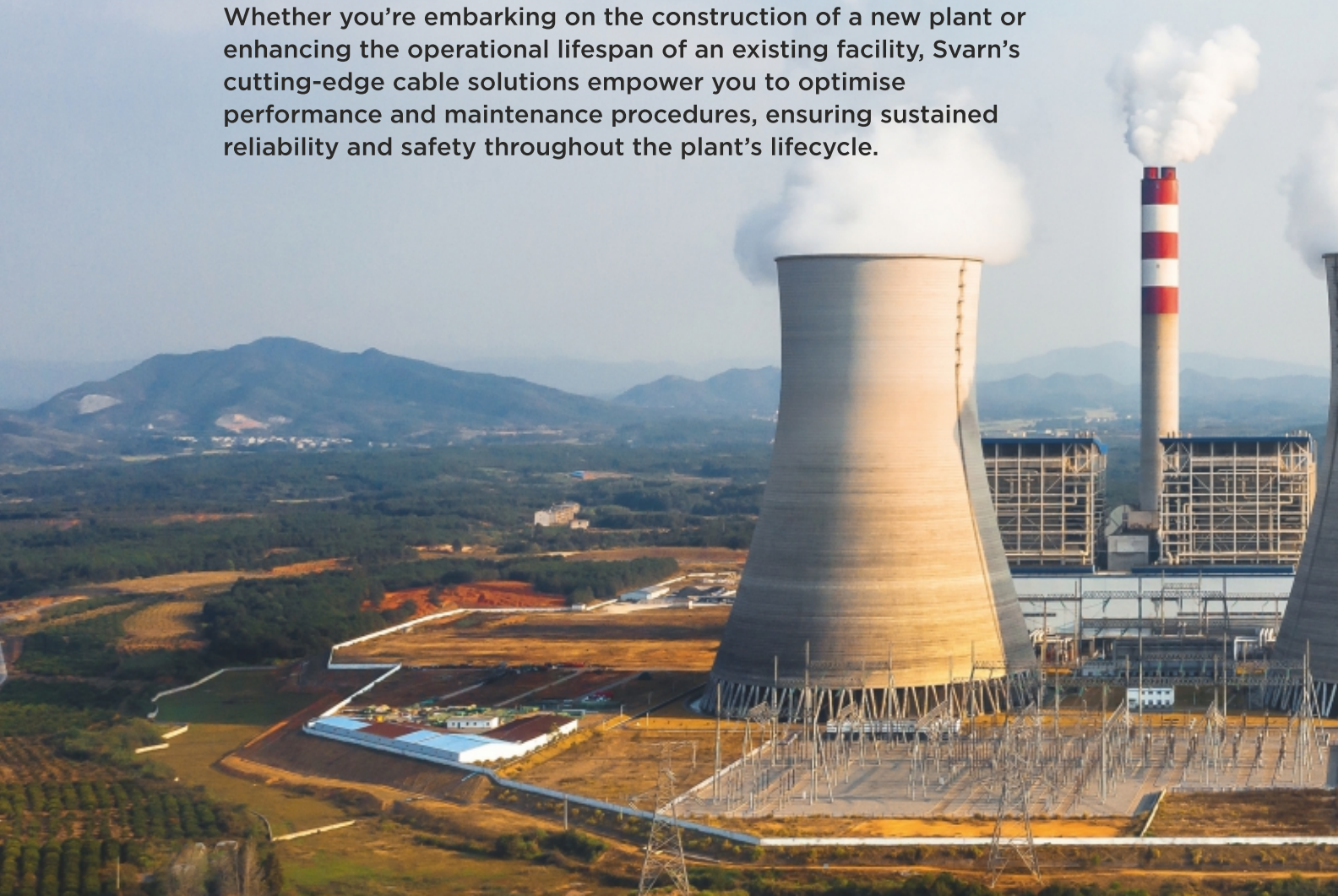
## **SVARN CABLES FOR NUCLEAR POWER PROJECTS**

# Performance and reliability suited for the most demanding environments

Today, nuclear energy accounts for over 10% of the global electricity supply, generated by approximately 440 power reactors worldwide. This substantial contribution translates to a quarter of the world's low-carbon electricity output.

Drawing on nearly two decades of specialised experience, Svarn offers a comprehensive array of cables tailored for nuclear energy production. Ranging from fundamental power cables to intricate control and communication systems, Svarn's products are engineered with advanced materials capable of withstanding the extreme pressures, temperatures, and radiation typical of nuclear power plant environments. Adhering to stringent safety protocols, Svarn cables are meticulously designed to meet both domestic and international quality standards.

Whether you're embarking on the construction of a new plant or enhancing the operational lifespan of an existing facility, Svarn's cutting-edge cable solutions empower you to optimise performance and maintenance procedures, ensuring sustained reliability and safety throughout the plant's lifecycle.





## ABOUT US

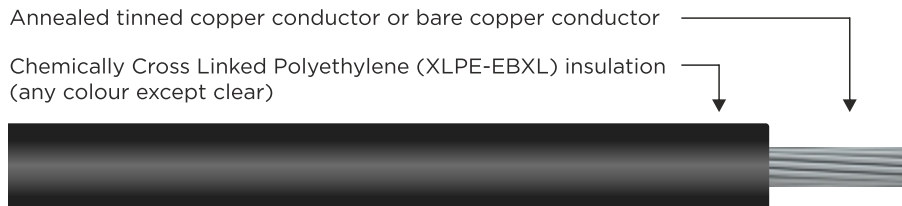
At Svarn, we're pioneers in turning big ideas into real-world solutions. Our legacy of innovation, rooted in the essence of "Svarn" or Gold, has thrived since 2005. With over 3,000 dedicated employees, we're constantly pushing the boundaries of technology to benefit our customers and society. Our impact spans across six key industries, supported by seven cutting-edge manufacturing facilities and global offices in strategic locations. Through relentless innovation, we're shaping a prosperous and sustainable future — **inspired by possibilities.**



Know more at [www.svarn.com](http://www.svarn.com)

## Svarn SIS Cables 18AWG 1000MCM, 600Volts, 90°C Dry and Wet

Svarn SIS Cables are suitable for various switchboard wiring as well as panel boards, distribution boards, conduits, ducts and applications for high radiation prone areas. These cables may be installed in wet or dry locations.



### TECHNICAL DATA

- Nominal voltage : 600 Volts
- Temperature range : +90°C Dry and Wet

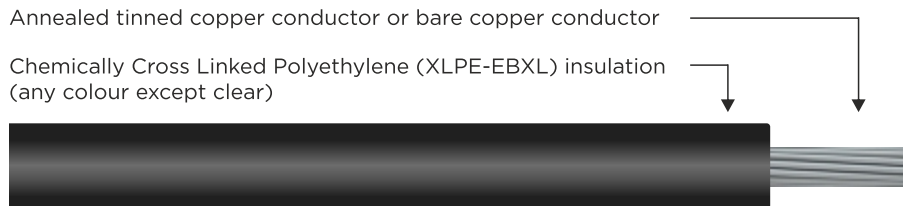
### FEATURES

- UV resistant
- Flame & fire retardant FT2
- Heat & moisture resistant
- Radiation stability
- Suitable for direct burial/ underground installation
- Oil/ gasoline resistant
- RoHS compliant
- CT Rated (1/0 or larger size)

PART NO.	NOMINAL CROSS SECTIONAL AREA	INSULATION THICKNESS	MINIMUM OVERALL DIAMETER	NOMINAL WEIGHT
	AWG	mils(mm)	mm	kg/km
FGCBPIS14AWG	18	0.76	2.74	15
FGCBSIS12AWG	16	0.76	2.99	20
FGCBPIS14AWG	14	0.76	3.37	29
FGCBSIS12AWG	12	0.76	3.86	42
FGCBPIS10AWG	10	0.76	4.45	61
FGCBPIS8AWG	8	1.14	5.99	101
FGCBPIS6AWG	6	1.14	6.93	152
FGCBPIS4AWG	4	1.14	8.12	230
FGCBPIS2AWG	2	1.14	9.62	354
FGCBPIS1AWG	1	1.4	11.09	445
FGCBPIS1/0AWG	1/0	1.4	12.29	553
FGCBPIS2/0AWG	2/0	1.4	13.5	688
FGCBPIS3/0AWG	3/0	1.4	14.5	857
FGCBPIS4/0AWG	4/0	1.4	15.92	1068
FGCBPIS250MCM	250MCM	1.65	17.92	1269
FGCBPIS350MCM	350MCM	1.65	20.26	1751
FGCBPIS500MCM	500MCM	1.65	23.54	2469
FGCBPIS750MCM	750MCM	2.03	28.87	3692
FGCBPIS1000MCM	1000MCM	2.03	32.68	4880

## Svarn SIS Cables 14AWG 1000MCM, 600Volts, 90°C Dry and Wet

Svarn SIS Cables are suitable for various switchboard wiring as well as panel boards, distribution boards, conduits, ducts and applications for high radiation prone areas. These cables may be installed in wet or dry locations.



### TECHNICAL DATA

- Nominal voltage : 600 Volts
- Temperature range : +90°C Dry and Wet
- Radiation resistance : 200 Megarads

### FEATURES

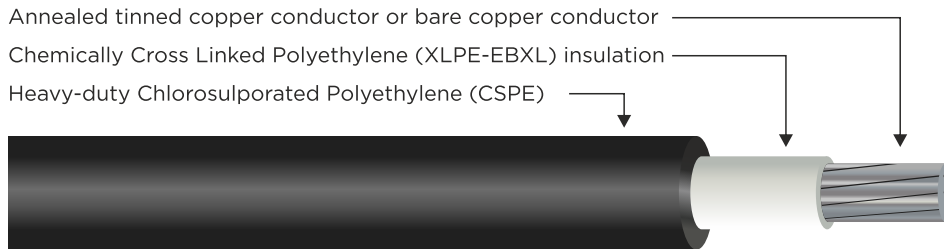
- UV resistant
- Flame & fire retardant FT2
- Heat & moisture resistant
- Radiation stability
- High thermal tolerance
- Suitable for direct burial/ underground installation
- Oil/ gasoline resistant
- RoHS compliant
- CT Rated (1/0 or larger size)

PART NO.	NOMINAL CROSS SECTIONAL AREA	INSULATION THICKNESS	MINIMUM OVERALL DIAMETER	NOMINAL WEIGHT
	AWG	mils(mm)	mm	kg/km
FGCBPSIS14AWG	14	1.14	4.16	34
FGCBPSIS12AWG	12	1.14	4.65	48
FGCBPSIS10AWG	10	1.14	5.23	69
FGCBPSIS8AWG	8	1.52	6.78	111
FGCBPSIS6AWG	6	1.52	7.72	163
FGCBPSIS4AWG	4	1.52	8.91	243
FGCBPSIS2AWG	2	1.52	10.5	369
FGCBPSIS1AWG	1	2.03	12.5	475
FGCBPSIS1/0AWG	1/0	2.03	13.5	586
FGCBPSIS2/0AWG	2/0	2.03	14.6	724
FGCBPSIS3/0AWG	3/0	2.03	15.9	895
FGCBPSIS4/0AWG	4/0	2.03	17.3	1111
FGCBPSIS250MCM	250MCM	2.41	19.3	1324
FGCBPSIS350MCM	350MCM	2.41	21.9	1814
FGCBPSIS500MCM	500MCM	2.41	25.2	2541
FGCBPSIS750MCM	750MCM	2.79	30.6	3784
FGCBPSIS1000MCM	1000MCM	2.79	34.4	4984



## Svarn SIS Cables 14AWG 1000MCM, 600Volts, 90°C Dry and Wet

Svarn SIS Cables are suitable for various switchboard wiring as well as panel boards, distribution boards, conduits, ducts and applications for high radiation prone area. These cables may be installed in wet or dry locations.



### TECHNICAL DATA

- Nominal voltage : 600 Volts
- Temperature range : +90°C Dry and Wet
- Radiation resistance : 200 Megarads

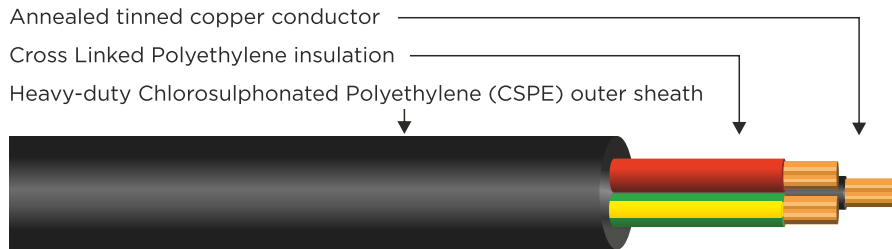
### FEATURES

- UV resistant
- Flame & fire retardant FT2
- Heat & moisture resistant
- Radiation stability
- High thermal tolerance
- Suitable for direct burial/ underground installation
- Oil/ gasoline resistant
- RoHS compliant
- CT Rated (1/0 or larger size)

PART NO.	NOMINAL CROSS SECTIONAL AREA	INSULATION THICKNESS	MINIMUM OVERALL DIAMETER	NOMINAL WEIGHT
	AWG	mils(mm)	mm	kg/km
FGCBPIS14AWG	14	1.14	4.2	35
FGCBSIS12AWG	12	1.14	4.69	49
FGCBPIS10AWG	10	1.14	5.27	69
FGCBPIS8AWG	8	1.52	6.82	113
FGCBPIS6AWG	6	1.52	8.55	178
FGCBPIS4AWG	4	1.52	9.75	261
FGCBPIS2AWG	2	1.52	11.3	389
FGCBPIS1AWG	1	2.03	13.6	507
FGCBPIS1/0AWG	1/0	2.03	14.6	621
FGCBPIS2/0AWG	2/0	2.03	15.7	761
FGCBPIS3/0AWG	3/0	2.03	16.9	936
FGCBPIS4/0AWG	4/0	2.03	18.4	1155
FGCBPIS250MCM	250MCM	2.41	21.2	1411
FGCBPIS350MCM	350MCM	2.41	23.8	1912
FGCBPIS500MCM	500MCM	2.41	27.1	2654
FGCBPIS750MCM	750MCM	2.79	32.4	3916
FGCBPIS1000MCM	1000MCM	2.79	36.2	5132

## Svarn Multicore XLPE Insulated, CSPE Sheathed Cables - 600Volts

Svarn Multicore XLPE Insulated, CSPE Sheathed Cables are designed for wiring between components, instruments and electrical equipment. They are vastly used in aircrafts, computers & for use in data recording in nuclear generation.



### TECHNICAL DATA

- Nominal voltage : 600 volts
- Temperature range : +90°C

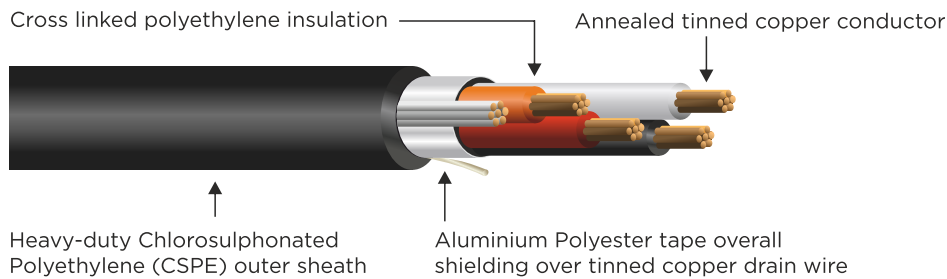
### FEATURES

- UV resistant
- Flame & fire retardant FT2
- Heat & moisture resistant
- Radiation stability
- High thermal tolerance
- Suitable for direct burial/ underground installation
- Oil/ gasoline resistant
- RoHS compliant
- CT Rated (1/0 or larger size)

PART NO.	NOMINAL SIZE OF CONDUCTOR	CORES	INSULATION THICKNESS	MINIMUM OVERALL DIA	NOMINAL WEIGHT
	AWG		mils(mm)	mm	kg/km
FGCBPIS2C18AWG	18	2	0.64	7.78	78
FGCBPIS3C18AWG	18	3	0.64	8.1	88
FGCBPIS4C18AWG	18	4	0.64	8.66	108
FGCBPIS5C18AWG	18	5	0.64	9.42	120
FGCBPIS7C18AWG	18	7	0.64	10.18	148
FGCBPIS9C18AWG	18	9	0.64	11.7	185
FGCBPIS12C18AWG	18	12	0.64	13.1	231
FGCBPIS19C18AWG	18	19	0.64	16.2	361
FGCBPIS25C18AWG	18	25	0.64	18.56	461
FGCBPIS30C18AWG	18	30	0.64	19.47	525
FGCBPIS37C18AWG	18	37	0.64	21.08	634
FGCBPIS2C16AWG	16	2	0.64	8.15	85
FGCBPIS3C16AWG	16	3	0.64	8.55	105
FGCBPIS4C16AWG	16	4	0.64	9.3	129
FGCBPIS5C16AWG	16	5	0.64	10.06	149
FGCBPIS7C16AWG	16	7	0.64	10.96	192
FGCBPIS9C16AWG	16	9	0.64	12.74	240
FGCBPIS12C16AWG	16	12	0.64	15.08	331
FGCBPIS19C16AWG	16	19	0.64	17.3	475
FGCBPIS25C16AWG	16	25	0.64	20.1	607
FGCBPIS30C16AWG	16	30	0.64	22.38	765
FGCBPIS37C16AWG	16	37	0.64	24.03	918

## Svarn Multicore XLPE Insulated, CSPE Sheathed Cables - 600Volts

Svarn Multicore XLPE Insulated, CSPE Sheathed Cables are designed for wiring between components, instruments and electrical equipment. They are vastly used in aircrafts, computers & for use in data recording in nuclear generation.



### TECHNICAL DATA

- Nominal voltage : 600 volts
- Temperature range : +90°C

### FEATURES

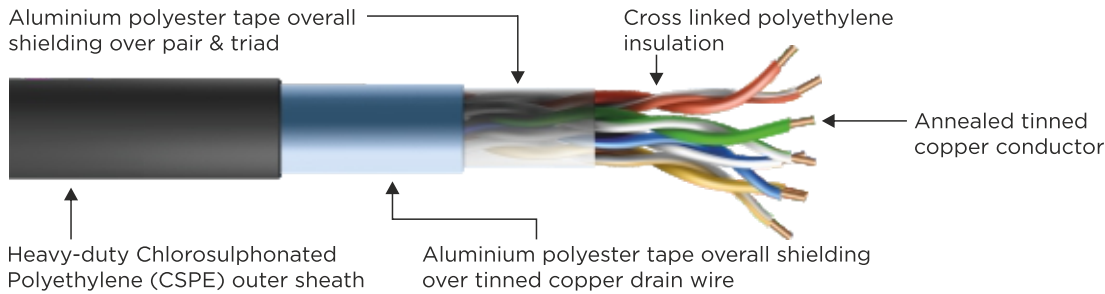
- UV resistant
- Flame & fire retardant FT2
- Heat & moisture resistant
- Radiation stability
- High thermal tolerance
- Suitable for direct burial/ underground installation
- Oil/ gasoline resistant
- RoHS compliant
- CT Rated (1/0 or larger size)

PART NO.	NOMINAL SIZE OF CONDUCTOR	CORES	INSULATION THICKNESS	MINIMUM OVERALL DIA	NOMINAL WEIGHT
	AWG		mils(mm)	mm	kg/km
FGCBPIS2C18AWG	18	2	0.64	7.41	80
FGCBPIS3C18AWG	18	3	0.64	7.79	86
FGCBPIS4C18AWG	18	4	0.64	8.45	111
FGCBPIS5C18AWG	18	5	0.64	10.2	122
FGCBPIS7C18AWG	18	7	0.64	11	151
FGCBPIS9C18AWG	18	9	0.64	12.5	187
FGCBPIS12C18AWG	18	12	0.64	14.6	235
FGCBPIS19C18AWG	18	19	0.64	16.8	363
FGCBPIS25C18AWG	18	25	0.64	19.2	461
FGCBPIS30C18AWG	18	30	0.64	20.3	531
FGCBPIS37C18AWG	18	37	0.64	22.8	638
FGCBPIS2C16AWG	16	2	0.64	7.9	92
FGCBPIS3C16AWG	16	3	0.64	8.5	110
FGCBPIS4C16AWG	16	4	0.64	9.2	132
FGCBPIS5C16AWG	16	5	0.64	11.5	156
FGCBPIS7C16AWG	16	7	0.64	12	196
FGCBPIS9C16AWG	16	9	0.64	14.5	245
FGCBPIS12C16AWG	16	12	0.64	16	335
FGCBPIS19C16AWG	16	19	0.64	18.4	479
FGCBPIS25C16AWG	16	25	0.64	20.9	610
FGCBPIS30C16AWG	16	30	0.64	23.2	769
FGCBPIS37C16AWG	16	37	0.64	24.8	912



## Svarn Multipair & Triad XLPE Insulated CSPE Sheathed Cables - 600Volts

Svarn Multipair & Multitriad XLPE Insulated, CSPE Sheathed Cables are designed for wiring between components, instruments and electrical equipment. They are vastly used in aircrafts, computers & for use in data recording in nuclear generation.



### TECHNICAL DATA

- Nominal voltage : 600 volts
- Temperature range : +90°C

### FEATURES

- UV resistant
- Flame & fire retardant FT2
- Heat & moisture resistant
- Radiation stability
- High thermal tolerance
- Suitable for direct burial/ underground installation
- Oil/ gasoline resistant
- RoHS compliant
- CT Rated (1/0 or larger size)

PART NO.	NOMINAL SIZE OF CONDUCTOR	CORES	INSULATION THICKNESS	MINIMUM OVERALL DIA	NOMINAL WEIGHT
	AWG		mils(mm)	mm	kg/km
FGCBPIS2P18AWG	18	2P	0.64	11.8	193
FGCBPIS3P18AWG	18	3P	0.64	12.6	238
FGCBPIS4P18AWG	18	4P	0.64	14.5	337
FGCBPIS5P18AWG	18	5P	0.64	15.8	340
FGCBPIS7P18AWG	18	7P	0.64	17.2	435
FGCBPIS9P18AWG	18	9P	0.64	20	540
FGCBPIS12P18AWG	18	12P	0.64	23.5	745
FGCBPIS19P18AWG	18	19P	0.64	27.6	989
FGCBPIS2P16AWG	16	2P	0.64	12.7	248
FGCBPIS3P16AWG	16	3P	0.64	14.2	331
FGCBPIS4P16AWG	16	4P	0.64	15.5	424
FGCBPIS5P16AWG	16	5P	0.64	17	510
FGCBPIS7P16AWG	16	7P	0.64	18.5	561
FGCBPIS9P16AWG	16	9P	0.64	22.6	770
FGCBPIS12P16AWG	16	12P	0.64	25.4	970
FGCBPIS19P16AWG	16	19P	0.64	29.7	1314
FGCBPIS2T18AWG	18	2T	0.64	12.5	257
FGCBPIS3T18AWG	18	3T	0.64	13.4	321
FGCBPIS4T18AWG	18	4T	0.64	15.3	459



PART NO.	NOMINAL SIZE OF CONDUCTOR	CORES	INSULATION THICKNESS	MINIMUM OVERALL DIA	NOMINAL WEIGHT
	AWG		mils(mm)	mm	kg/km
FGCBPIS5T18AWG	18	5T	0.64	16.7	543
FGCBPIS7T18AWG	18	7T	0.64	18.2	596
FGCBPIS9T18AWG	18	9T	0.64	21.3	735
FGCBPIS12T18AWG	18	12T	0.64	25	1020
FGCBPIS19T18AWG	18	19T	0.64	29.3	1355
FGCBPIS2T16AWG	16	2T	0.64	14.3	333
FGCBPIS3T16AWG	16	3T	0.64	15.1	448
FGCBPIS4T16AWG	16	4T	0.64	16.5	580
FGCBPIS5T16AWG	16	5T	0.64	18.1	693
FGCBPIS7T16AWG	16	7T	0.64	19.6	767
FGCBPIS9T16AWG	16	9T	0.64	24.1	1056
FGCBPIS12T16AWG	16	12T	0.64	26.9	1329
FGCBPIS19T16AWG	16	19T	0.64	31.6	1799



# QUALITY PAR EXCELLENCE



**OHSAS 18001**  
SAFETY SYSTEM  
CERTIFICATION



**ISO 9001:2008**  
QUALITY SYSTEM  
CERTIFICATION



**ISO 14001**  
ENVIRONMENTAL SYSTEM  
CERTIFICATION



**CE**  
CERTIFICATION







# SVARN GROUP

Inspired by possibilities



## BHARAT (INDIA)

### CORPORATE OFFICE

Plot No. 1, Site No. 1, 14/3, Mathura Road,  
Faridabad - 121003, Haryana

### WORKS

#### Haryana

74th Milestone, Delhi-Mathura Road,  
Hodal Toll Plaza, Distt. Palwal-121005

#### Rajasthan

Plot No. SP5 - 249, 250, RIICO Industrial Area,  
Ghiloth, Neemrana, Alwar - 301705

#### Maharashtra

Gat No. 153/1/1, Village Ambethan, Taluka Khed  
(near Dwarka School), Pune - 410501

#### Uttarakhand

Plot No. 68, 69, 71, 72 & 73, Sector-5, IIE,  
Sidcul, Haridwar-249403

## ASIA

### SINGAPORE

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Suntec Tower One, Downtown Core, 038987, Singapore

### THAILAND

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Klongton Subdistrict, Klongton District, Bangkok 10110

### INDONESIA

PT SVARN GROUP INDONESIA: Innovation Center,  
Jababeka Industrial Estate 6, Jl. Samsung,  
Block A 3A, Cikarang Utara 17530

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180 Nguyen Thi Minh Khai, Vo Thi Sau Ward,  
District 3, Ho Chi Minh City, Vietnam

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## MIDDLE EAST

### DUBAI

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