SVARN
Inspired by possibilities

Expanding the future of a connected world

CABLES FOR TELECOM APPLICATIONS

SVARN GROUP

TELECOM | AUTOMOTIVE | DEFENCE | RAILWAYS | POWER | PROJECTS

SVARN CABLES FOR TELECOM APPLICATIONS

Extensive portfolio of reliable and sustainable cable solutions

Svarn established its first cable manufacturing facility in 2005 to complement the growth of the Indian telecom industry. In less than a decade, Svarn ascended to the helm of the telecom cable market, owing its success to its exceptional quality and extensive product range.

Today, Svarn has expanded its offerings, providing comprehensive cabling solutions for energy transmission and networking to both Indian and international organisations. It leads as the primary supplier of end-to-end site solutions, offering an integrated telecom product range for kitting and site materials.

For more information please contact: Paresh Gupta - paresh@svarn.com

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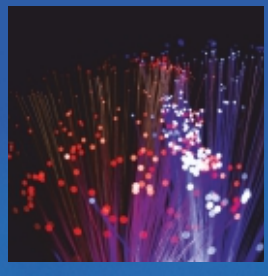
Svarn's cables are produced at a cutting-edge facility spanning 125,000 square feet in Palwal, Haryana, with an additional domestic wire manufacturing unit in Faridabad. With over 500 skilled personnel, including engineers, product specialists, and quality supervisors, Svarn continues to meet the telecom industry's evolving needs.

Telephone Cables

Data Transmission Cables



Fiber Optic Cables

Cable Assemblies

*For more information please contact: **Paresh Gupta** – paresh@svarn.com*

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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

For more information please contact: ***Paresh Gupta*** *– paresh@svarn.com*

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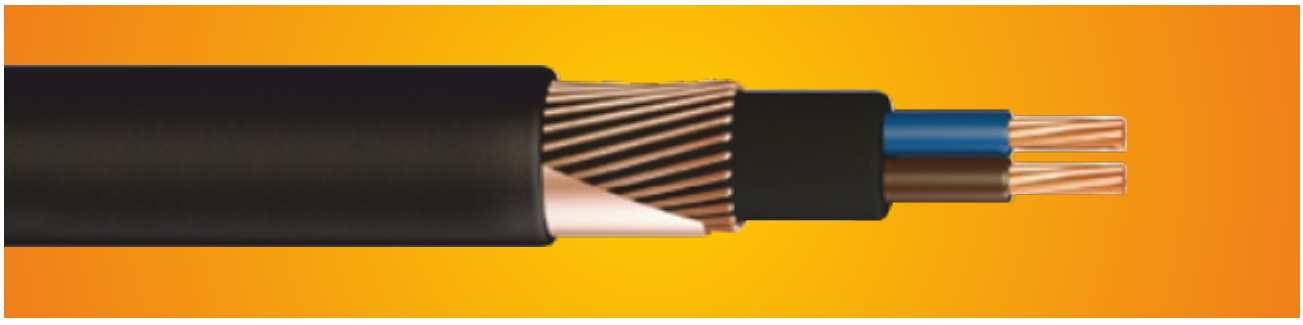
N2XCY

Svarn N2XCY cable is suitable for installation in ground, indoors, cable trunking and outdoors. These cables are suitable for power distribution in industrial application, including urban networks and household feeders.



CABLE STRUCTURE

- Annealed bare copper conductor class-2
- Cross linked polyethylene (XLPE) insulation
- PVC filler
- Copper concentric conductor
- Copper tape armouring
- PVC outer sheath

TECHNICAL DATA

- Nominal voltage : 600/1000 volts
- Test voltage : 3500 volts
- Temperature range : 90°C
- Bending radius : 15x cable dia

FEATURES

- UV resistant
- Flame retardant FT2
- Heat & moisture resistant
- Radiation stability
- Suitable for direct burial/ underground installation
- Oil/ gasoline resistant II
- RoHS compliant

PART NO.	NOMINAL SIZE OF CONDUCTOR	CORES	MINIMUM OVERALL DIAMETER	NOMINAL WEIGHT
	sqmm		mm	Kg/km
FGCBPCN2XCY2C1.5	1.5	2	14.5	273
FGCBPCN2XCY2C2.5	2.5	2	16.5	386
FGCBPCN2XCY2C4	4	2	17.5	511
FGCBPCN2XCY2C6	6	2	19.4	643
FGCBPCN2XCY2C10	10	2	22.4	977
FGCBPCN2XCY2C16	16	2	25.5	1417
FGCBPCN2XCY2C25	25	2	30.4	1995
FGCBPCN2XCY2C35	35	2	33.5	2505
FGCBPCN2XCY2C50	50	2	38.5	3457

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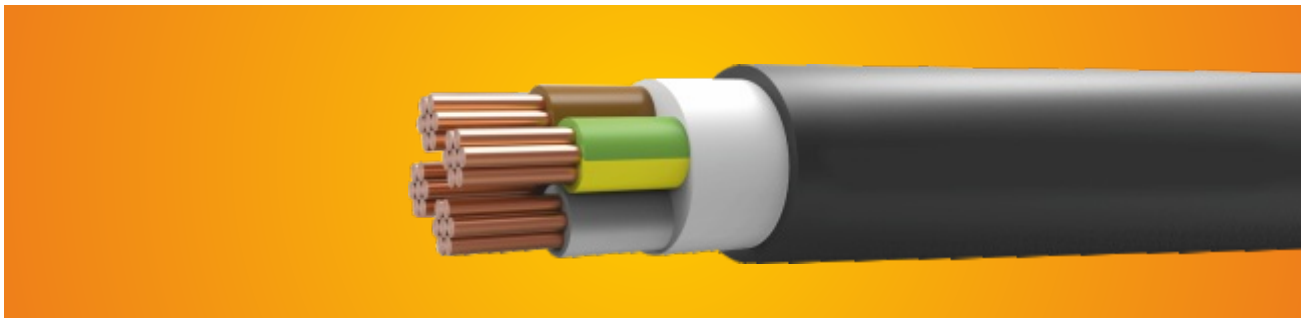
NYY

Svarn NYY cable is suitable for installation in ground, indoors, cable trunking and outdoors. These cables are suitable for power distribution in industrial application, including urban networks and household feeders.



CABLE STRUCTURE

- Annealed bare copper conductor class-2
- PVC insulation
- PVC filler
- PVC outer sheath

TECHNICAL DATA

- Nominal voltage : 600/1000 volts
- Test voltage : 3500 volts
- Temperature range : 90°C
- Bending radius : 15x cable dia

FEATURES

- UV resistant
- Flame retardant FT2
- Heat & moisture resistant
- Radiation stability
- Suitable for direct burial/ underground installation
- Oil/ gasoline resistant II
- RoHS compliant

PART NO.	NOMINAL SIZE OF CONDUCTOR	CORES	MINIMUM OVERALL DIAMETER	NOMINAL WEIGHT
	sqmm		mm	Kg/km
FGCBPCNYY2C1.5	1.5	2	10.5	149
FGCBPCNYY2C2.5	2.5	2	11.2	182
FGCBPCNYY2C4	4	2	13.5	270
FGCBPCNYY2C6	6	2	14.5	339
FGCBPCNYY2C10	10	2	16.5	475
FGCBPCNYY2C16	16	2	18.5	646

NYFGBY

Svarn NYFGBY cable is suitable for installation in ground, indoors, cable trunking and outdoors. These cables are suitable for power distribution in industrial application, including urban networks and household feeders.

CABLE STRUCTURE

- Annealed bare copper conductor class-2
- PVC insulation
- PVC filler
- Galvanised flat steel armouring
- PVC outer sheath

TECHNICAL DATA

- Nominal voltage : 600/1000 volts
- Test voltage : 3500 volts
- Temperature range : 70°C

FEATURES

- UV resistant
- Flame retardant FT2
- Heat & moisture resistant
- Radiation stability
- Suitable for direct burial/ underground installation
- Oil/ gasoline resistant II
- RoHS compliant

PART NO.	NOMINAL SIZE OF CONDUCTOR	CORES	MINIMUM OVERALL DIAMETER	NOMINAL WEIGHT
	sqmm		mm	Kg/km
FGCBPCNYFGBY4C10	10	2	21.5	1115
FGCBPCNYFGBY4C16	16	2	24.5	1455
FGCBPC NYFGBY4C25	25	2	27.5	2005
FGCBPC NYFGBY4C35	35	2	30.5	2505
FGCBPC NYFGBY4C50	50	2	34.5	3280

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NYA

Svarn NYA cable is suitable for installation in ground, indoors, cable trunking and outdoors. These cables are suitable for power distribution in industrial application, including urban networks and household feeders.

CABLE STRUCTURE

- Annealed bare copper conductor class-2
- PVC insulation

TECHNICAL DATA

- Nominal voltage : 600/1000 volts
- Test voltage : 3500 volts
- Temperature range : -25°C to +70°C

FEATURES

- UV resistant
- Flame retardant FT2
- Heat & moisture resistant
- Radiation stability
- Suitable for direct burial/ underground installation
- Oil/ gasoline resistant II
- RoHS compliant

PART NO.	NOMINAL SIZE OF CONDUCTOR	CORES	MINIMUM OVERALL DIAMETER	NOMINAL WEIGHT
	sqmm		mm	Kg/km
FGCBPCNYA1C1.5	1.5	1	3.2	22.5
FGCBPCNYA1C2.5	2.5	1	3.8	34.5
FGCBPCNYA1C4	4	1	4.4	50.5
FGCBPCNYA1C6	6	1	4.9	71
FGCBPCNYA1C10	10	1	6.3	118
FGCBPCNYA1C16	16	1	7.3	174
FGCBPCNYA1C25	25	1	9.1	279
FGCBPCNYA1C35	35	1	10.2	371
FGCBPCNYA1C50	50	1	12.2	515

NYAF

Svarn NYAF cable is suitable for installation in ground, indoors, cable trunking and outdoors. These cables are suitable for power distribution in industrial application, including urban networks and household feeders.

CABLE STRUCTURE

- Annealed bare copper conductor class-2
- PVC insulation

TECHNICAL DATA

- Nominal voltage : 600/1000 volts
- Test voltage : 3500 volts
- Temperature range : 70°C
- Bending radius : 15x cable dia

FEATURES

- UV resistant
- Flame retardant FT2
- Heat & moisture resistant
- Radiation stability
- Suitable for direct burial/ underground installation
- Oil/ gasoline resistant II
- RoHS compliant

PART NO.	NOMINAL SIZE OF CONDUCTOR	CORES	MINIMUM OVERALL DIAMETER	NOMINAL WEIGHT
	sqmm		mm	Kg/km
FGCBPCNYAF1C1.5	1.5	1	3.1	22
FGCBPCNYAF1C2.5	2.5	1	3.7	34
FGCBPCNYAF1C4	4	1	4.2	50
FGCBPCNYAF1C6	6	1	4.7	70
FGCBPCNYAF1C10	10	1	6.2	117
FGCBPCNYAF1C16	16	1	7.9	174
FGCBPCNYAF1C25	25	1	9.8	279
FGCBPCNYAF1C35	35	1	11	371
FGCBPCNYAF1C50	50	1	13.2	515

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XCMK-HF

- XCMK-HF cable may be laid indoor, outdoor, for fixed installation on wall and on metallic structures.
- Direct burial in soil is allowed, as long as the relevant national rules of installations are followed.
- Suitable for areas with thick smoke and corrosive gases, in case of fire or overheating

CABLE STRUCTURE

- Annealed bare copper conductor class-2
- XLPE insulation
- HFFR filler
- Copper wire & copper tape screening
- Halogen free polyolefin outer sheath

TECHNICAL DATA

- Temperature Range : -20°C to +90°C
- Voltage Rating (Uo/U) : 0.6/1 (1.2) kV
- Test Voltage, 1min : 3.5kV
- Minimum Bending Radius (fixed) : 10x overall diameter

FEATURES

- Fixed installation on wall
- Designed for harsh mechanical environments.
- Chemical and abrasion resistant
- Hydrolyse resistant
- Thermal stress resistant
- Halogen free
- Flame resistant
- High flexibility and easy to use
- Light weight, thin diameter
- Cable is constructed to prevent injury and leakage
- Low corrosive gas emission

PART NO.	NO OF CORES	NOMINAL CROSS SECTIONAL AREA	NOMINAL OVERALL DIAMETER	NOMINAL WEIGHT
		mm2	mm	Kg/km
FGCBSCXCMK-HF3C1.5/1.5	3	1.5/1.5	14	210
FGCBSCXCMK-HF3C2.5/2.5	3	2.5/2.5	15	260
FGCBSCXCMK-HF3C06/06	3	06-06	17	450
FGCBSCXCMK-HF3C10/10	3	10-10	21	670
FGCBSCXCMK-HF3C16/16	3	16/16	24	970
FGCBSCXCMK-HF3C25/16	3	25/16	26	1330
FGCBSCXCMK-HF3C35/16	3	35/16	28	1360
FGCBSCXCMK-HF3C50/25	3	50/25	29	1860
FGCBSCXCMK-HF3C70/35	3	70/35	33	2560
FGCBSCXCMK-HF3C95/50	3	95/50	37	3440
FGCBSCXCMK-HF3C120/70	3	120/70	39	4350

Continued on next page

PART NO.	NO OF CORES	NOMINAL CROSS SECTIONAL AREA	NOMINAL OVERALL DIAMETER	NOMINAL WEIGHT
		mm2	mm	Kg/km
FGCBSCXCMK-HF3C150/70	3	150/70	43	5150
FGCBSCXCMK-HF3C185/95	3	185/95	48	6600
FGCBSCXCMK-HF3C240/120	3	240/120	54	8450
FGCBSCXCMK-HF4C1.5/1.5	4	1.5/1.5	14	240
FGCBSCXCMK-HF4C2.5/2.5	4	2.5/2.5	15	300
FGCBSCXCMK-HF4C06/06	4	06-06	19	530
FGCBSCXCMK-HF4C10/10	4	10-10	23	810
FGCBSCXCMK-HF4C16/16	4	16/16	26	1160
FGCBSCXCMK-HF4C25/16	4	25/16	28	1600
FGCBSCXCMK-HF4C35/16	4	35/16	30	1710
FGCBSCXCMK-HF4C50/25	4	50/25	31	2340
FGCBSCXCMK-HF4C70/35	4	70/35	35	3230
FGCBSCXCMK-HF4C95/50	4	95/50	39	4360
FGCBSCXCMK-HF4C120/70	4	120/70	43	5510
FGCBSCXCMK-HF4C150/70	4	150/70	47	6650
FGCBSCXCMK-HF4C185/95	4	185/95	54	8460
FGCBSCXCMK-HF4C240/120	4	240/120	60	10960

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm2	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ohm/km
1.5/1.5	12.1
2.5/2.5	7.41
6/6	3.08
10/10	1.83
16/16	1.15
25/16	0.727
35/16	0.524
50/25	0.387
70/35	0.268
95/50	0.193
120/70	0.153
150/70	0.124
185/95	0.0991
240/120	0.0754

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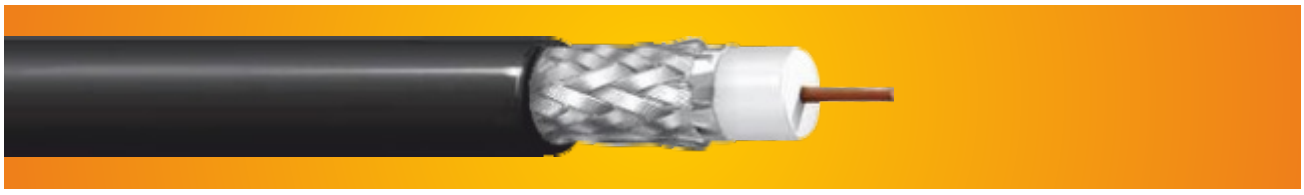
50Ω Flexible Braided Coaxial Cable

Svarn 50Ω Flexible braided cable is used as connection wire inside equipment and jumper cable for base station and antennas, and any other place which need coaxial cable with high performance.



CABLE STRUCTURE

- Annealed bare copper / copper clad aluminium conductor
- Foamed polythene
- Tinned copper wire braiding over bonded aluminium foil.
- PVC / PE / LSZH

PRODUCT CONSTRUCTION

CONSTRUCTION	RF Link 100	RF Link 195	RF Link 200	RF Link 240	RF Link 300	RF Link 400	RF Link 500	RF Link 600
Inner Conductor	0.46	0.94	1.12	1.42	1.78	2.74	3.61	4.47
Dielectric	1.52	2.8	2.95	3.81	4.83	7.24	9.4	11.56
Outer Conductor	2.11	3.53	3.66	4.52	5.72	8.13	10.29	12.45
Jacket	2.79	4.95	4.95	6.1	7.62	10.29	12.7	14.99

PRODUCT PROPERTIES

CONSTRUCTION	RF Link 100	RF Link 195	RF Link 200	RF Link 240	RF Link 300	RF Link 400	RF Link 500	RF Link 600
Min. bending radius (mm)	6.4	12.7	12.7	19.1	22.2	25.4	31.8	38.1
Flat plate crush resistance kg/mm	0.18	0.27	0.27	0.36	0.54	0.71	0.89	1.07
Max, pulling force (Kg)	6.8	18.2	18.2	36.3	54.5	72.6	118	158.9
(Q/km) DC Inner Conductor	104	24.94	17.59	10.5	6.96	3.07	2.69	1.74
resistance Outer Conductar	31.2	16.08	16.08	12.76	7.25	5.41	4.17	3.94
Insulation resistance MΩ - Km	5000							
Dielectric Strength (KV)	1.6							
Velocity of Propagation %	66	80	83	85	86	87	86	87
Peak Power rating (KW)	0.6	2.5	2.5	5.6	10	16	22	40
Cut off frequency (GHz)	90	41	39	31	24.5	16.2	12.6	10.3
Characteristic impedence	50							
VSWR (Operational frequency)	≤1,2							
(VDC) voltage withstand	500	1000	1000	1500	2000	2500	3000	4000
(pF/m) capacitance	101.1	79.5	80.4	79.4	79.1	78.4	77.4	76.8
µH/m inductance	0.25	0.21	0.20	0.20	0.20	0.20	0.19	0.19
Shielding effectiveness	>90db							
Phase stability	<10pm/C°							

ATTENUATION (@20°C) & AVERAGE POWER (@AMBIENT TEMPERATURE 40°C, INNER CONDUCTOR TEMPERATURE 100°C)

CONSTRUCTION	Frequency MHz	RF Link 100	RF Link 195	RF Link 200	RF Link 240	RF Link 300	RF Link 400	RF Link 500	RF Link 600
Attenuation (dB/100 mtr)	30	12.9	6.5	5.8	4.4	3.5	2.2	1.8	1.4
	50	16.7	8.4	7.5	5.7	4.5	2.9	2.3	1.8
	150	29.4	14.6	13.1	9.9	7.9	5	4	3.2
	220	35.8	17.7	15.9	12	9.6	6.1	4.9	3.9
	450	51.9	25.5	22.8	17.3	13.8	8.9	7.1	5.6
	900	74.9	36.5	32.6	24.8	19.9	12.8	10.3	8.2
	1500	98.7	47.7	42.4	32.4	26	16.8	13.6	10.9
	1800	109	52.5	46.6	35.6	28.7	18.6	15	12.1
	2000	115.5	55.4	49.3	37.7	30.3	19.6	15.9	12.8
	2500	130.6	62.4	55.4	42.4	34.2	22.2	18	14.5
	3000	143.8	68.9	61.3	47.1	38.2	25	20.4	16.7
Average Power (kw)	30	0.23	0.78	0.91	1.3	1.78	2.72	2.91	4.93
	50	0.18	0.6	0.7	1	1.38	2.13	2.21	3.83
	150	0.1	0.35	0.4	0.58	0.79	1.22	1.28	2.16
	220	0.08	0.29	0.33	0.48	0.65	1	1.05	1.77
	450	0.06	0.2	0.23	0.33	0.45	0.69	0.72	1.23
	900	0.04	0.14	0.16	0.23	0.31	0.48	0.5	0.84
	1500	0.03	0.11	0.12	0.18	0.24	0.36	0.38	0.63
	1800	0.03	0.1	0.11	0.16	0.22	0.33	0.34	0.57
	2500	0.02	0.08	0.1	0.13	0.18	0.27	0.29	0.48
	3000	0.02	0.08	0.09	0.12	0.17	0.25	0.24	0.44

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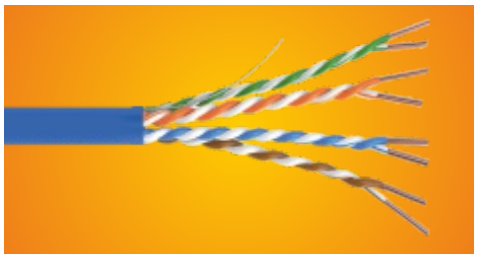
Speedlink CAT 5e cable 24 AWG

Svarn speedlink Cat 5e cable 24 AWG cable suitable for Ethernet applications and compatible with all known connection systems. Ideal for high performance workstation applications including voice/data systems, digital video, broadband and voice over internet protocol



CABLE STRUCTURE

- Annealed bare copper 24 AWG conductor
- High Density polythene
- Polyester tape binder
- Aluminium bonded polyester tape shielding
- Tinned copper drain wire
- FR PVC for indoor / PE for outdoor

PARAMETER	DATA	SFTP	FTP	UTP
Conductor	24 AWG Annealed Bare Solid copper	0	0	0
Insulation	1 mm Nom. High Density Polythene	0	0	0
Pairs	Blue/white-Blue, Orange/White-Orange	0	0	0
	Green/White-Green, Brown/White - Brown	0	0	0
	Laying 4 Pair laid together.	0	0	0
	Binding Polyester Tape	0	0	0
Shield	Aluminium Bonded Polyester Tape	0	0	X
Braiding and Coverage	0.1 mm Nom, more than 60%	0	X	X
Drain Wire	26 AWG Tinned Copper	0	0	X
Sheathing (External Jacket)	FR PVC for Indoor / PE for Outdoor	0	0	0
Jacket Dia	In mm Nominal	6.5	6	5.5
Vertical Flame Spread of single cable	As per IEC 60332-1	0	0	0
Vertical Flame Spread of Bunched Cables	As per IEC 60332-3-24 Category C	0	0	0
Amount of Halogen acid gas	As per IEC 60754-1 20 Mg/g max	0	0	0
Corrosivity of Combustion Gases	As per IEC 60754-2	0	0	0
Smoke Density	As per IEC 61034-2 less than 60% SDR	0	0	0
Conductor Resistance at 20°c	94Ω/km Max,	0	0	0
Insulation Resistance at 20°c	≥ 5MΩ/Km	0	0	0
High Voltage Test 1500 V for 1 Min	Withstood	0	0	0
Capacitance	53+/-5nf/km	0	0	0
Impedance	100±15Ω	0	0	0
Attenuation	Frequency in MHZ	Attenuation In dB per 100 meter cable		
	1	2.2	2.2	2
	10	6.7	6.7	6.5
	20	9.3	9.3	9.3
	100	22	22	22
Next	Frequency in MHZ	NEXT In dB		
	1	65.3	65.3	65.3
	10	50.3	50.3	50.3
	20	45.8	45.8	45.8
	100	35.3	35.3	35.3
Cable Printing	SPEEDLINK 24 AWG 4 Pair Category 5e SFTP Cable SPEEDLINK 24 AWG 4 Pair Category 5e FTP Cable SPEEDLINK 24 AWG 4 Pair Category 5e UTP Cable			
Packing	500/305/100 mtr.	0	0	0

Speedlink CAT 6 cable 23 AWG

Svarn speedlink Cat 6 cable 23 AWG cable suitable for Ethernet applications and compatible with all known connection systems. Ideal for high performance workstation applications including voice/data systems, digital video, broadband and voice over internet protocol

CABLE STRUCTURE

- Annealed bare copper 23 AWG conductor
- High Density polythene
- Polyester tape binder
- Aluminium bonded polyester tape shielding
- Tinned copper drain wire
- FR PVC for indoor / PE for outdoor

PARAMETER	DATA	SFTP	FTP	UTP
Conductor 24 AWG	Annealed Bare Solid copper	0	0	0
Insulation	1 mm Nom. High Density Polythene	0	0	0
	Pairs Blue/white-Blue, Orange/White-Orange	0	0	0
	Green/White-Green, Brown/White - Brown	0	0	0
Filler	PE	0	0	0
Laying	4 Pair laid together.	0	0	0
Binding	Polyester Tape	0	0	0
Shield	Aluminium Bonded Polyester Tape	0	0	X
Braiding and Coverage	0.1 mm Nom, more than 60%	0	X	X
Drain Wire	26 AWG Tinned Copper	0	0	X
Sheathing (External Jacket)	FR PVC for Indoor / PE for Outdoor	0	0	0
Jacket Dia	In mm Nominal	7	6.5	6
Vertical Flame Spread of single cable	As per IEC 60332-1	0	0	0
Vertical Flame Spread of Bunched Cables	As per IEC 60332-3-24 Category C	0	0	0
Amount of Halogen acid gas	As per IEC 60754-1 20 Mg/g max	0	0	0
Corrosivity of Combustion Gases	As per IEC 60754-2	0	0	0
Smoke Density	As per IEC 61034-2 less than 60% SDR	0	0	0
Conductor Resistance at 20°c	76 Ω/km Max	0	0	0
Insulation Resistance at 20°c	≥ 5M Ω/km	0	0	0
High Voltage Test 1500 V for 1 Min	Withstood	0	0	0
Capacitance	53+/-5nf/km	0	0	0
Impedance	100±15 Ω	0	0	0
Attenuation	Frequency in MHZ	Attenuation In dB per 100 meter cable		
	1	2	2	1.9
	10	6.7	6	6
	20	9.3	8.5	8.5
	100	22	19	19
	150	24.7	24.7	24.7
	200	29	29	29
	250	32	32	32
	300	35.6	35.6	35.6
Next	Frequency in MHz	NEXT In dB		
	1	74.3	74.3	74.3
	10	59.3	59.3	59.3
	20	54.8	54.8	54.8
	100	44.3	44.3	44.3
	150	41.7	41.7	41.7
	200	39	39	39
	250	37	37	37
	300	35.3	35.3	35.3
Cable Printing	SPEEDLINK 23 AWG 4 Pair Category 6 SFTP Cable SPEEDLINK 23 AWG 4 Pair Category 6 FTP Cable SPEEDLINK 23 AWG 4 Pair Category 6 UTP Cable			
Packing	500/305/100 mtr.	0	0	0

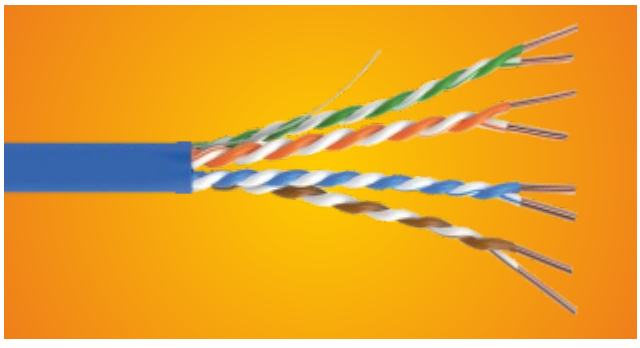
*For more information please contact: **Paresh Gupta** – paresh@svarn.com*

Speedlink CAT 7 cable

Svarn SPEEDLINK CAT 7 PIMF 600 Cable exceeds Category 7 performance requirements of ISO/IEC 61156-5. This high speed cable is designed for LAN and Broadcast distribution systems. The cable has a YELLOW Low Smoke Zero Halogen Jacket.

Applications

10 Gigabit Ethernet 1000Base-T; Fast Ethernet 100Base-T, Ethernet 10Base-T, Token Ring, ATM 155 Mbps, TP-PMd 100 Mbps, ISDN, Analog (Broadband, Baseband) and Digital Video and Analog and Digital (VOIP) Voice.



CABLE STRUCTURE

- Annealed bare solid / 23 AWG copper conductor
- Foam PE, Ø1.35 mm
- 4 pair twisted
- Aluminium foil individual screening
- Wh/Bl, Wh/Or, Wh/Gr, Wh/Br colour code
- ATC wire braided
- LSZH outer sheath

TRANSMISSION CHARACTERISTICS

- Common Parameter
- Propagation Delay @100MHz 420 ns/100m

Freq. MHz.	Att. Typ. dB.	NEXT Min. dB.	ACR Typ. dB.	PSNEXT Min. dB.	PSELFEXT Min. dB.	RL Min. dB.
1	2	79	91	75	85	20
10	5.9	79	87.1	75	80	25
100	18.5	70	74.5	69.4	67	20.1
200	26	66	64	64.9	53	18
250	29.5	64	60.5	63.4	51	17.3
450	43	60	39	59.6	42	17.3
600	48	59	28	57.7	36	17.3

PHYSICAL CHARACTERISTICS

Dimension & weight

- Cable Diameter : 7.5mm
- Cable Weight : 63 Kg/Km

MECHANICAL CHARACTERISTICS

- Bending radius during installation : ≥ 8xOD
- Bending radius after installation : ≥ 4xOD
- Tensile Strength : ≥ 100N

ENVIRONMENTAL CHARACTERISTICS

- Operating Temp. : -20°C to +60°C
- Installation Temp. : 0°C to +50°C
- Fire Rating : IEC 60332-1
- Combustion energy : 0.74 MJ/m

ELECTRICAL CHARACTERISTICS

- Impendence : 100± 15Ω
- NVP : 77%
- DC resistance : 80Ω/ km
- Mutual Capacitance : 43nF/Km
- Operating Voltage : Max. 125 V

CAT-5 S-FTP LAN cable assembly

PART NO.	PRODUCT DESCRIPTION
STCA-53 xx1	CAT-5 sftp LAN cable straight assembly
STCA-53 xx2	CAT-5 sftp LAN cable cross assembly

Note : xx strands for length in mtr

PRODUCT DETAILS

- Cable : CAT5 S-FTP
- Connector : RJ45 shielded
- Cable length : Customer requirement

TECHNICAL SPECIFICATIONS

Mechanical				
Inner Conductor	24 AWG bare solid copper			
Overall Shield	Tinned copper braiding, 0.1 mm dia			
Insulation Dia	1.05 mm nominal			
Insulation Material	Polyethylene			
Drain Wire	26 AWG ATC			
Sheath Material	PVC			
Sheath Dia	6 mm nominal			
Electrical				
Impedance	100±150			
Conductor Resistance @20°C	94,8 ohm/km max			
Capacitance	50±5nf/km			
Insulation resistance constant at 27°C	5 G-ohm-km (Min.)			
AC HVT test in water	1.5KV for one minute			
Heat Shock Test on insulation at 150°C for 1 Hour	No cracks			
Flammability test	As per IEC 60332			
Return Loss	≥ 21dB @ 100Mhz			
Frequency	1MHz	10Mhz	20Mhz	100Mhz
Attenuation at 20°C/100 Mtr,	2.2 dB	6.7dB	9.4dB	22dB
NEXT (min) at 20°C	65.5dB	50.3dB	45.9dB	35.8dB

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Svarn Telecom cable

Telephone Pair Cables - Indoor / Outdoor

Reference Standards :	IS 13716, S/WS 1130, S/WS 1148, G/MR- 06/02
Conductor :	Electrolytic Copper Bare/Tinned
Sizes :	0,4 mm/0.5 mm/ 0.6 mm/0.63 mm/ 0.71 mm/ 0.8 mm/0.9 mm Solid
Insulation :	PVC/Polythylene
Binder Tape :	Polyester
Screening :	Aluminium Mylar Tape with 100% coverage (Optional) along with Drain Wire
Armour :	G.I. wire/Strip as per IS:3975 (Optional)
Inner/Outer Sheath :	PVC/Polyethylene/FRLS PVC/LSZH

No./Dia of Cond.	No. of Pairs	Min. Thickness of sheath	Unarmoured Cable		Armoured Cable				
			Max OD	Approx. Net Weight	Round G.I Wire	Flat G.I Wire	Thickness of Sheath Nominal	Approx. OD	Weight Approx. Net
mm		mm	mm	kg/km	mm	mm	mm		kg/km
2/0.50	1	0.50	3.50	12.20					
4/0.50	2	0.65	5.10	25.10	0.9		1.80	10.70	197.00
6/0.50	3	0.65	5.60	32.50	0.9		1.80	11.20	224.00
8/0.50	4	0.65	6.00	39.50	0.9		1.80	11.60	231.50
10/0.50	5	0.65	6.30	47.50	0.9		1.80	17.60	315.00
12/0.50	6	0.65	6.80	53.75	0.9		1.80	13.10	341.50
14/0.50	7	0.65	7.00	59.00	0.9		1.80	13.60	362.50
20/0.50	10	0.75	9.00	88.00	O.9		1.80	15.60	482.50
22/0.50	11	0.75	9.50	93.50	0.9		1.80	16.10	505.50
28/0.50	14	0.75	I0.50	108.75	0.9		1.80	17.10	492.50
40/0.50	0	0.75	11.50	147.50	0.9		1.60	18.10	627.50
50/0.50	25	0.75	11.80	179.50	0.9		1.80	18.40	661.00
70/0.50	35	0.90	13.60	252.00		0.8x4.0	2.00	21.00	884.50
84/0.50	42	0.9	15.00	290.00		0.8x4.0	2.00	22.40	980.50
100/0.50	50	1.10	16.20	353.00		0.8x4.0	2.00	23.60	1089.00
150/0.50	75	1.30	19.60	524.00		0.8x4.0	2.00	2s.40	1147.00
200/0.50	100	1.40	22.80	696.00		0.8x4.0	2.00	28.60	1369.00

Svarn PCM cable

100Ω/120Ω Balanced PCM Cables for Transmission Equipment Installation

Reference Standards :	TEC GW / WIR-04/02
Conductor :	Solid plain annealed copper to IEC 60228 0.4 mm, 0.5 mm
Insulation :	PE /Foamed PE
Pair Colour :	Red + Blue
Lay-up:	Two insulated conductors twisted to form a pair, Screened with numbered Aluminium mylar tape with 0,4/0,5mm ATC earth wire, Required number of pairs are laid up, stranded together to form a compact circular cable
Wrapping :	Polyester or polyethylene tapes are taped around the cable for isolation,
Screening :	Aluminium mylar tape lapped with overlap. Nominal thickness of tape is 0.05mm with earth wire 0.4/0.5mm ATC.
Braiding (Optional) :	0.15mm ATC braiding with minimum coverage of 30% and 35-40° braid angle
Sheath :	PVC/FR/ZHLS

Conductor Diameter (mm)	Conductor Resistance at 20°C (0/km)	Insulation Resistance (MQ/Km)	Capacitance Unbalance Pair to Ground(pF) for 500m	Impedance (2)	Resistance Unbalance %	Cross talk db for 500m Length
0.4	154	500	2000	120	2.5	70
0.5	94	5000	2000	120	2.5	70

No. of Pairs	No. of Cores	Numbered Tape	Sheath Thickness (mm) Nominal
1	2	1	0.8
2	4	2	0.8
3	6	3	0.8
4	8	4	0.8
5	10	5	0.8
6	12	6	1.0
7	14	7	1.0
8	16	8	1.0
9	18	9	1.0
10	20	10	1.0
11	22	11	1.4
12	24	12	1.4
13	26	13	1.4
14	28	14	1.4
15	30	15	1.4
16	32	16	1.4

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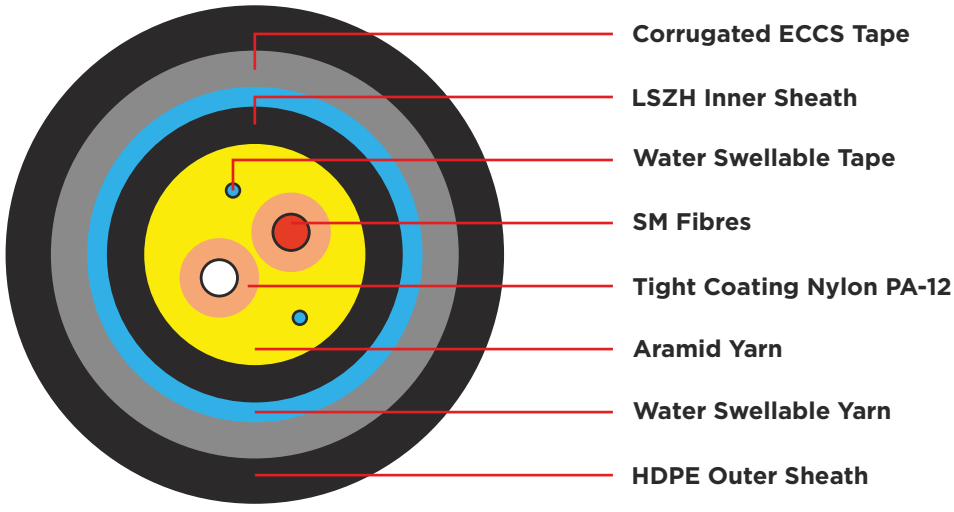
Fiber Optics Cable Assemblies LC Duplex 2F, SM 9/125 micron for all SM classes outdoor Armored



CABLE STRUCTURE

- Outer Jacket : Steel Tape Armored/Steel Spiral Armored
- Tight buffer Diameter : 0.9±0.1mm
- Strength member material : Water Blocking Aramid yarn
- Inner Jacket : LSZH black.
- Water blocking material : Water Blocking tape
- Armor tape : Corrugated ECCS tape/Spiral Tape Armored

TECHNICAL DATA

- **Insertion Loss** : Max.0.3+3.0dB/km *L @850nm
  Max.0.3+1.0dB/km *L @1550nm
- **Return Loss** : Min. 50dB

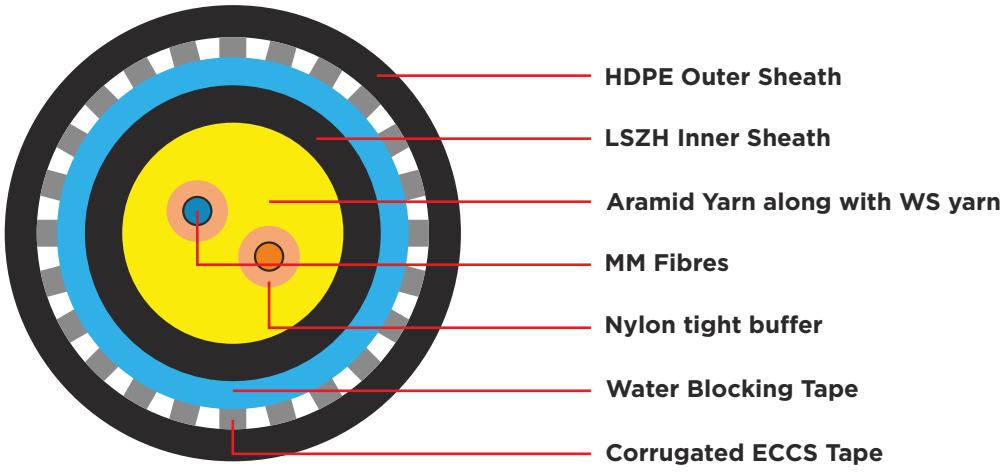
FEATURES

- The optical cable can be supplied with steel armouring and has rodent resistance
- LC Duplex connector with flex tube at both side
- Grounding Kit protect base station against lighting strikes

Inner Jacket Diameter	Length	Outer Jacket Diameter
Steel Tape Armored SM	8.2	2m to 300m (depending on Customer Requirement)
Steel Tape Armored MM	4.8	
Un armored		
Steep Tape Armored MM		

Note. Certain Dimensions may vary with cable selection to suit Customer Specific Application

Fiber Optics Cable Assemblies LC Duplex 2F, MM all 50 micron MM classes outdoor Armored



CABLE STRUCTURE

- Outer Jacket : Steel Tape Armored/Steel Spiral Armored
- Tight buffer Diameter : 0.9±0.1mm
- Strength member material : Water Blocking Aramid yarn
- Inner Jacket : LSZH black
- Water blocking material : Water Blocking tape
- Armor tape : Corrugated ECCS tape/Spiral Tape Armored

TECHNICAL DATA

- **Insertion Loss** : Max.0.7+3.0dB/km *L @850nm
  Max.0.7+1.0dB/km *L @1330nm
- **Return Loss** : Min. 35dB

FEATURES

- The optical cable can be supplied with steel armouring and has rodent resistance
- LC Duplex connector with flex tube at both side
- Grounding Kit protect base station against lighting strikes

Inner Jacket Diameter	Length	Outer Jacket Diameter
Steel Tape Armored SM	8.2	2m to 300m(depending on Customer Requirement)
Steel Tape Armored MM	4.8	
Un armored		
Steep Tape Armored MM		

Note. Certain Dimensions may vary with cable selection to suit Customer Specific Application

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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

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

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

ASIA

SINGAPORE
SVARN PTE. LTD.
7 Temasek Boulevard, #12-07,
Suntec Tower One
Downtown Core, 038987, Singapore

THAILAND
SVARN INFRA (THAILAND) CO. LTD.
3656/50 Green Tower Building,
Floor 16th, Rama 4 Road,
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

VIETNAM
SVARN GROUP LLC
12B Floor, Cienco 4 Building,
180 Nguyen Thi Minh Khai
Vo Thi Sau Ward, District 3,
Ho Chi Minh City, Vietnam

Contact: Paresh Gupta
M: +91 98107 94010 | E: paresh@svarn.com

MIDDLE EAST

DUBAI
SVARN MIDDLE EAST DWC-LLC
O465, Floor C4, Office Park,
Dubai South, UAE

Contact: J.K. Mishra
M: +971 50118 7209
E: jkmishra@svarn.com

1800-121-222-999 | info@svarn.com | www.svarn.com