



SVARN
Inspired by possibilities

Powering efficiency – from field to enterprise

CABLES FOR OIL & GAS INDUSTRY



SVARN GROUP

TELECOM | AUTOMOTIVE | DEFENCE | RAILWAYS | POWER | PROJECTS

SVARN CABLES FOR OIL & GAS INDUSTRY

Performance and reliability suited for the most demanding environments

Svarn stands out as a top-tier provider of high-performance cable solutions meticulously crafted to meet the rigorous demands of the oil and gas sector. Engineered to withstand the harshest conditions and corrosive elements pervasive in this industry, our cables are the go-to choice for enterprises of any size.

Our diverse range of cable offerings caters to various needs including power distribution, instrumentation, control, and data communication. By employing top-quality materials and cutting-edge construction techniques, we ensure unparalleled performance and reliability, even in the most challenging environments.

Benefiting from nearly two decades of experience in the cable industry, we possess an in-depth understanding of the intricacies of the oil and gas sector, enabling us to tackle industry-specific challenges with precision.



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.**



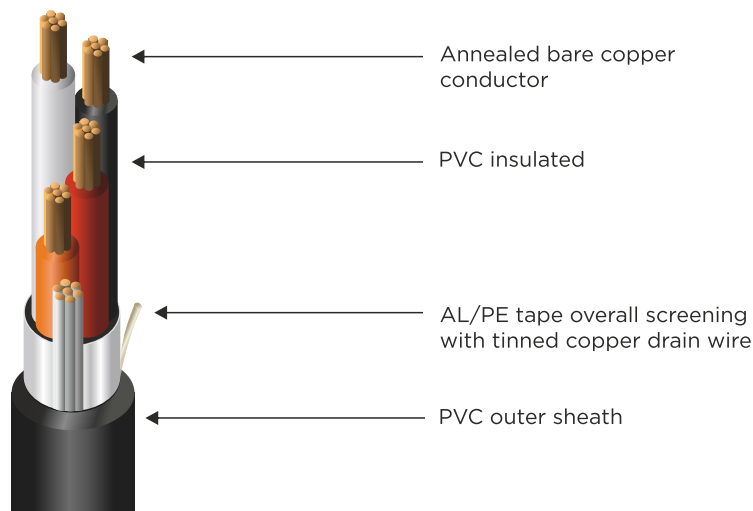
Know more at www.svarn.com

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Svarn AL/PE Tape Overall Screened Instrumentation Cables

Svarn AL/PE Tape Overall Screened Instrumentation Cables are tailored for demanding conditions within the oil & gas processing industry, enduring harsh environments and constant exposure to oil, petrochemicals, and gas.



TECHNICAL DATA

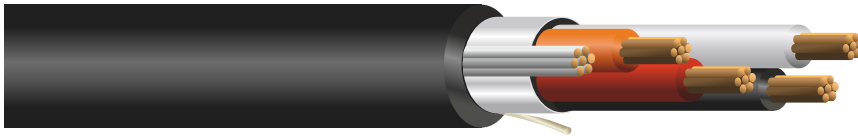
- Nominal voltage: 500 V
- Temperature range: -30°C to +70°C
- Test voltage: 2kV (AC)
- Torsion resistance: $\pm 100^\circ/\text{m}$
- Maximum tensile load: 15N/mm² (in operation)
- Minimum bending radius: 7x overall dia
- As per EN 50288-7 IEC 60228

FEATURES

- Used in extreme weather conditions (UV resistant)
- Flexibility for fast and easy installation
- Thermal stress resistant
- Flame & fire retardant
- Oil resistant
- Suitable for open space networks



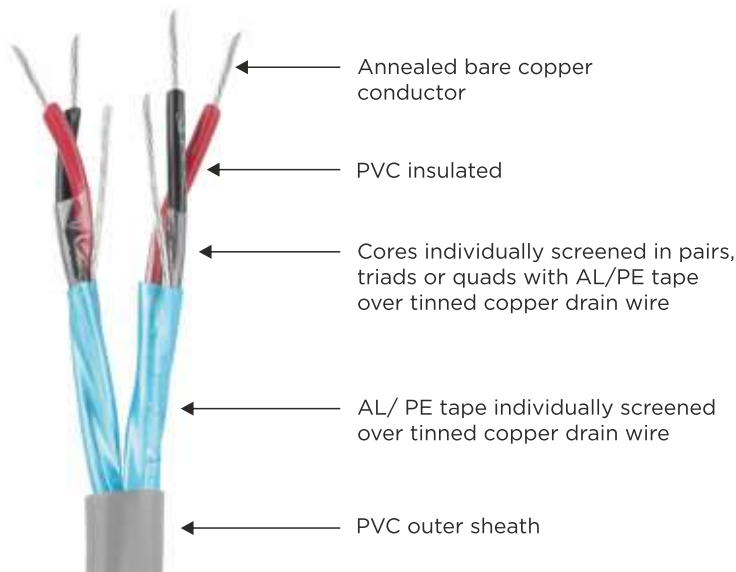
Svarn AL/PE Tape Overall Screened Instrumentation Cables



Item Code	No of Pairs & Cross Sectional Area	Overall Dia of Cable	Approx. Weight of Cable
	sq.mm	mm	kg/km
FGCBWC1P0.5	1X2X0.5	7.4	60
FGCBWC2P0.5	2X2X0.5	10.7	106
FGCBWC4P0.5	4X2X0.5	12.4	149
FGCBWC5P0.5	5X2X0.5	13.8	186
FGCBWC6P0.5	6X2X0.5	15	215
FGCBWC8P0.5	8X2X0.5	17	266
FGCBWC10P0.5	10X2X0.5	19.3	341
FGCBWC12P0.5	12X2X0.5	20	371
FGCBWC15P0.5	15X2X0.5	22.4	471
FGCBWC16P0.5	16X2X0.5	22.4	484
FGCBWC20P0.5	20X2X0.5	25	613
FGCBWC24P0.5	24X2X0.5	27.9	681
FGCBWC30P0.5	30X2X0.5	29.9	831
FGCBWC36P0.5	36X2X0.5	32.2	990
FGCBWC1T0.5	1X3X0.5	7.8	70
FGCBWC2T0.5	2X3X0.5	11.9	134
FGCBWC3T0.5	3X3X0.5	12.6	159
FGCBWC1Q0.5	1X4X0.5	8.3	84
FGCBWC2Q0.5	2X4X0.5	14.8	178
FGCBWC3Q0.5	3X4X0.5	15.7	215

Svarn AL/PE Tape Individually Screened Instrumentation Cables

Svarn AL/PE Tape Individually Screened Instrumentation Cables are designed for fixed installation in dry & damp areas in the oil & gas processing industry, enduring harsh environments and constant exposure to oil, petrochemicals, and gas.



TECHNICAL DATA

- Nominal voltage: 500 V
- Temperature range: -30°C to +70°C
- Test voltage: 2kV (AC)
- Torsion resistance: ±100°/m
- Maximum tensile load: 15N/mm² (in operation)
- Minimum bending radius: 7x overall dia
- As per EN 50288-7 IEC 60228

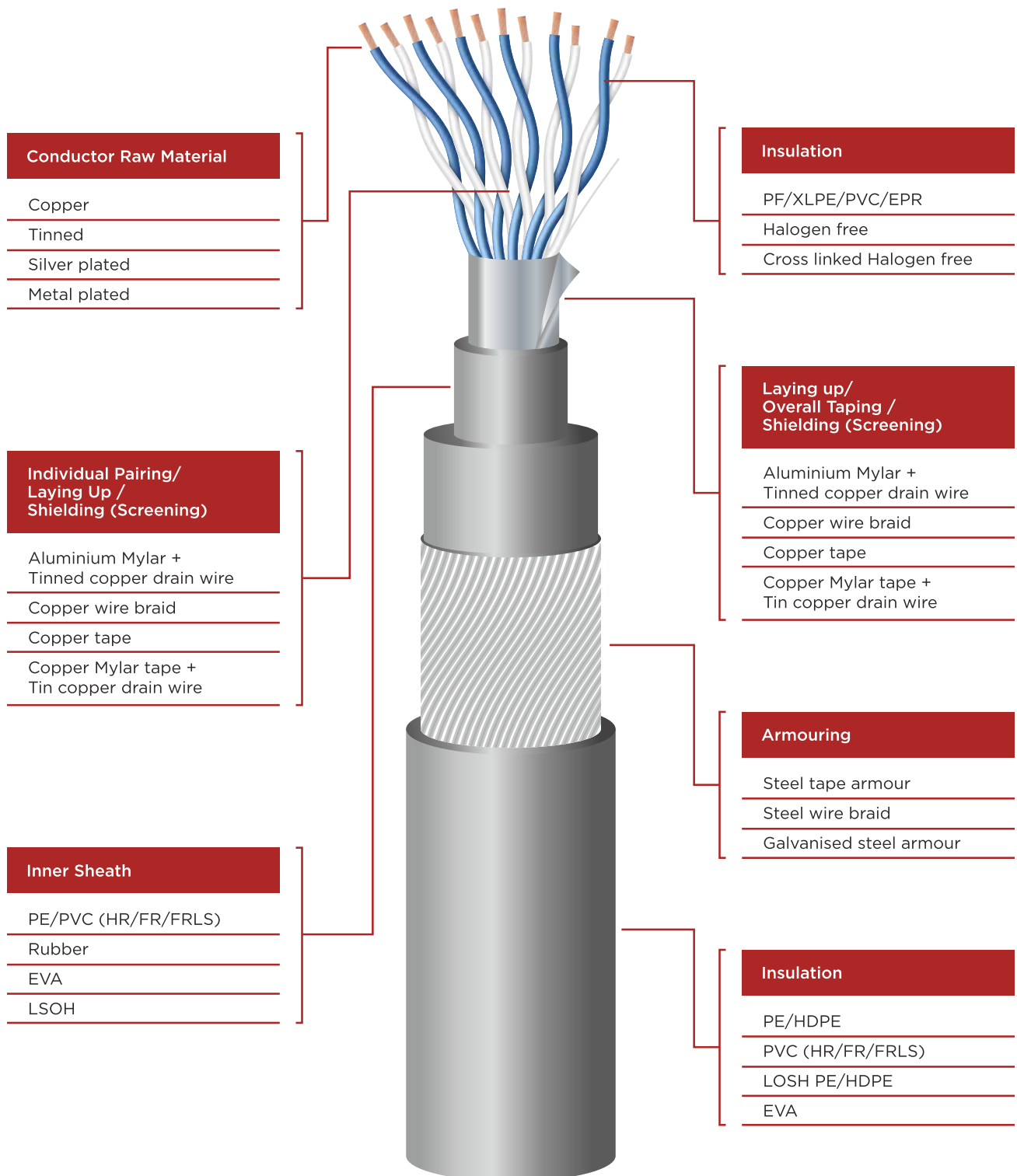
FEATURES

- Used in extreme weather conditions (UV resistant)
- Flexibility for fast and easy installation
- Thermal stress resistant
- Flame & fire retardant
- Oil resistant
- Suitable for open space networks




Item Code	No of Pairs & Cross Sectional Area	Overall Dia of Cable	Approx. Weight of Cable
	sq.mm	mm	kg/km
FGCBIC1P0.5	1X2X0.5	8.7	74
FGCBIC2P0.5	2X2X0.5	12	126
FGCBIC4P0.5	4X2X0.5	14.3	186
FGCBIC5P0.5	5X2X0.5	15.6	222
FGCBIC6P0.5	6X2X0.5	17.2	268
FGCBIC8P0.5	8X2X0.5	19.6	323
FGCBIC10P0.5	10X2X0.5	22.3	412
FGCBIC12P0.5	12X2X0.5	23.2	452
FGCBIC15P0.5	15X2X0.5	26	590
FGCBIC16P0.5	16X2X0.5	26	607
FGCBIC20P0.5	20X2X0.5	29.2	786
FGCBIC24P0.5	24X2X0.5	32.6	857

Svarn Instrumentation Cables

Manufacturing Process and Raw Material Used



Properties of fire performance in cables

PROPERTIES COVERED		TYPES					
		FR		FRLS		ZHLS	
		Flame Retardant		Flame Retardant Low Smoke		Zero Halogen Low Smoke	
Properties	Ref. Standard	Applicable	Limit	Applicable	Limit	Applicable	Limit
Oxygen Index	ASTMD-2863	✓	29% (Min.)	✓	29% (Min.)	✓	30% (Min.)
Temperature Index	ASTMD-2863	✓	250°C (Min.)	✓	250°C (Min.)	✓	250°C (Min.)
Smoke Density Rating	ASTMD-2863 IEC: 61034			✓	60% (Max.)	✓	20% (Max.)
Halogen Acid Gas Generation	IEC: 60754-1 EN-50267-2-1			✓	20% (Max.)	✓	0.5% (Max.)
Toxicity Index	IEC: 60754-2 EN-50267-2-2					✓	0.5% (Max.)
Corrosive Gases	IEC: 60754-2 EN-50267-2-2					✓	Ph ≥ 4.3 Conductivity ≤ 100 us/cm
Flame Test on Single Cable	IEC: 60332-1 EN-50265-1	✓	As per specification	✓	As per specification	✓	As per specification
Fire Test on Bunched Cable	IEC: 60332-3 EN-50266-2	✓	As per specification	✓	As per specification	✓	As per specification
Applicable Symbols				  		   	



FLAME RETARDANT
IEC 60332-1



FLAME RETARDANT
IEC 60332-3



LOW EMISSION
OF DARK FUMES
-ASTM D-2843



HALOGEN FREE
IEC 60754-1



LOW TOXICITY
AND CORROSIVITY
OF EMITTED GASES
IEC 60754-2



300/500 Volts, Multi Triad, STR. Copper, PVC/PE Insulated Aluminium Mylar Taped Individual and Overall Shielded, Armoured and Unarmoured Instrumentation Cables – generally as per IS

Area of conductor	No of triad	Min. thickness of insulation	ARMoured CABLES						UNARMoured CABLES				Normal Drum Length with ± 5%
			Min. thickness of inner sheath	Dimension of G.I. armour (wire/strip)	Min. thickness of outer sheath	Nominal overall diameter	Approx. weight of cable PE insulation	Approx. weight of cable PVC insulation	Nominal thickness of outer sheath	Nominal overall diameter	Approx. weight of cable PE insulation	Approx. weight of cable PVC insulation	
mm ²		mm	mm	mm	mm	mm	kg/km	kg/km	mm	mm	kg/km	kg/km	m
1.0	16	0.44	0.3	4.0 X 0.8	1.40	31.1	1490	1590	2.0	29.5	1030	1120	500/1000
1.0	19	0.44	0.3	4.0 X 0.8	1.40	32.7	1670	1780	2.0	31.1	1180	1290	500/1000
1.0	20	0.44	0.3	4.0 X 0.8	1.56	34.7	1780	1900	2.0	32.8	1250	1370	500/1000
1.0	24	0.44	0.4	4.0 X 0.8	1.56	38.5	2080	2220	2.2	36.8	1500	1650	500
1.0	30	0.44	0.4	4.0 X 0.8	1.56	40.7	2430	2610	2.2	39.0	1800	1980	500
1.0	37	0.44	0.4	4.0 X 0.8	1.56	43.8	2840	3060	2.2	42.1	2160	2390	500
1.5	2	0.44	0.3	0.9	1.24	17.8	485	500	1.8	15.9	255	270	1000
1.5	4	0.44	0.3	4.0 X 0.8	1.24	20.1	690	720	1.8	18.4	400	430	1000
1.5	5	0.44	0.3	4.0 X 0.8	1.40	22.1	810	850	1.8	20.0	480	510	1000
1.5	6	0.44	0.3	4.0 X 0.8	1.40	23.9	920	960	2.0	22.2	580	620	1000
1.5	8	0.44	0.3	4.0 X 0.8	1.40	26.5	1120	1170	2.0	24.9	730	780	1000
1.5	10	0.44	0.3	4.0 X 0.8	1.40	29.8	1320	1390	2.0	28.2	880	950	500/1000
1.5	12	0.44	0.3	4.0 X 0.8	1.40	30.7	1450	1540	2.0	29.1	1010	1100	500/1000
1.5	14	0.44	0.3	4.0 X 0.8	1.56	32.5	1640	1740	2.0	30.6	1150	1250	500/1000
1.5	16	0.44	0.3	4.0 X 0.8	1.56	34.2	1800	1920	2.0	32.3	1290	1400	500/1000
1.5	19	0.44	0.4	4.0 X 0.8	1.56	36.2	2070	2200	2.2	34.5	1530	1660	500
1.5	20	0.44	0.4	4.0 X 0.8	1.56	38.2	2180	2320	2.2	36.5	1610	1750	500
1.5	24	0.44	0.4	4.0 X 0.8	1.56	42.2	2550	2710	2.2	40.5	1900	2060	500
1.5	30	0.44	0.4	4.0 X 0.8	1.72	45.0	3000	3210	2.2	42.9	2290	2500	500
1.5	37	0.44	0.5	4.0 X 0.8	1.72	48.7	3570	3830	2.4	46.8	2800	3060	500
2.5	2	0.53	0.3	4.0 X 0.8	1.40	20.4	650	670	1.8	18.3	340	360	1000
2.5	4	0.53	0.3	4.0 X 0.8	1.40	23.4	910	950	2.0	21.8	570	610	1000
2.5	5	0.53	0.3	4.0 X 0.8	1.40	25.4	1050	1100	2.0	23.8	690	740	1000
2.5	6	0.53	0.3	4.0 X 0.8	1.40	27.5	1190	1250	2.0	25.9	800	860	1000
2.5	8	0.53	0.3	4.0 X 0.8	1.40	30.8	1450	1530	2.0	29.2	1020	1100	500/1000
2.5	10	0.53	0.4	4.0 X 0.8	1.56	35.2	1790	1890	2.2	33.5	1270	1370	500/1000
2.5	12	0.53	0.4	4.0 X 0.8	1.56	36.4	2020	2140	2.2	34.7	1470	1590	500
2.5	14	0.53	0.4	4.0 X 0.8	1.56	38.2	2240	2380	2.2	36.5	1670	1810	500
2.5	16	0.53	0.4	4.0 X 0.8	1.56	40.2	2480	2640	2.2	38.5	1880	2040	500
2.5	19	0.53	0.4	4.0 X 0.8	1.56	42.4	2830	3010	2.2	40.7	2180	2370	500
2.5	20	0.53	0.4	4.0 X 0.8	1.72	45.1	3010	3210	2.2	43.0	2300	2500	500
2.5	24	0.53	0.5	4.0 X 0.8	1.88	50.5	3600	3840	2.4	48.3	2760	3000	500
2.5	30	0.53	0.5	4.0 X 0.8	1.88	53.4	4210	4510	2.6	51.6	3400	3700	500
2.5	37	0.53	0.5	4.0 X 0.8	2.04	57.9	5020	5390	2.6	55.8	4100	4470	400

For cables of sizes or triads not listed above the product data is available on request.
Larger Drum Lengths are possible against specific requirements on request
Dimensions & weights are representative figures and may vary

300/500 Volts, Multi Triad, STR. Copper, PVC/PE Insulated Aluminium Mylar Taped Individual and Overall Shielded, Armoured and Unarmoured Instrumentation Cables – generally as per IS

Area of conductor	No of triad	Min. thickness of insulation	ARMoured CABLES						UNARMoured CABLES				Normal Drum Length with ± 5%
			Min. thickness of inner sheath	Dimension of G.I. armour (wire/strip)	Min. thickness of outer sheath	Nominal overall diameter	Approx. weight of cable PE insulation	Approx. weight of cable PVC insulation	Nominal thickness of outer sheath	Nominal overall diameter	Approx. weight of cable PE insulation	Approx. weight of cable PVC insulation	
mm ²		mm	mm	mm	mm	mm	kg/km	kg/km	mm	mm	kg/km	kg/km	m
0.5	2	0.44	0.3	0.9	1.24	15.0	355	360	1.8	13.1	165	175	1000
0.5	4	0.44	0.3	0.9	1.24	16.9	455	475	1.8	15.0	240	260	1000
0.5	5	0.44	0.3	0.9	1.24	18.1	520	540	1.8	16.3	280	305	1000
0.5	6	0.44	0.3	0.9	1.24	19.5	580	610	1.8	17.6	325	350	1000
0.5	8	0.44	0.3	4.0 X 0.8	1.40	21.7	710	750	1.8	19.7	400	440	1000
0.5	10	0.44	0.3	4.0 X 0.8	1.40	24.2	840	890	2.0	22.6	500	550	1000
0.5	12	0.44	0.3	4.0 X 0.8	1.40	24.9	930	990	2.0	23.3	570	620	1000
0.5	14	0.44	0.3	4.0 X 0.8	1.40	26.1	1000	1070	2.0	24.4	640	700	1000
0.5	16	0.44	0.3	4.0 X 0.8	1.40	27.4	1100	1170	2.0	25.8	710	780	1000
0.5	19	0.44	0.3	4.0 X 0.8	1.40	28.7	1220	1310	2.0	27.1	810	900	1000
0.5	20	0.44	0.3	4.0 X 0.8	1.40	30.2	1290	1380	2.0	28.6	850	950	500/1000
0.5	24	0.44	0.3	4.0 X 0.8	1.56	33.6	1510	1620	2.0	31.6	1000	1110	500/1000
0.5	30	0.44	0.4	4.0 X 0.8	1.56	35.6	1740	1890	2.2	33.9	1220	1360	500/1000
0.5	37	0.44	0.4	4.0 X 0.8	1.56	38.3	2020	2200	2.2	36.6	1450	1630	500
0.75	2	0.44	0.3	0.9	1.56	15.8	390	400	1.8	13.9	190	200	1000
0.75	4	0.44	0.3	0.9	1.24	17.9	510	540	1.8	16.0	285	305	1000
0.75	5	0.44	0.3	0.9	1.24	19.3	590	610	1.8	17.4	335	360	1000
0.75	6	0.44	0.3	4.0 X 0.8	1.24	20.9	690	730	1.8	18.9	385	420	1000
0.75	8	0.44	0.3	4.0 X 0.8	1.40	23.2	810	860	2.0	21.5	500	550	1000
0.75	10	0.44	0.3	4.0 X 0.8	1.40	25.9	970	1020	2.0	24.3	600	660	1000
0.75	12	0.44	0.3	4.0 X 0.8	1.40	26.7	1070	1140	2.0	25.1	690	750	1000
0.75	14	0.44	0.3	4.0 X 0.8	1.40	27.9	1190	1260	2.0	26.3	770	850	1000
0.75	16	0.44	0.3	4.0 X 0.8	1.40	29.4	1280	1360	2.0	27.7	860	950	1000
0.75	19	0.44	0.3	4.0 X 0.8	1.40	30.8	1430	1530	2.0	29.2	990	1090	500/1000
0.75	20	0.44	0.3	4.0 X 0.8	1.40	32.8	1530	1640	2.0	30.9	1040	1150	500/1000
0.75	24	0.44	0.4	4.0 X 0.8	1.56	36.3	1810	1940	2.2	34.6	1260	1390	500
0.75	30	0.44	0.4	4.0 X 0.8	1.56	38.3	2080	2240	2.2	36.6	1510	1670	500
0.75	37	0.44	0.4	4.0 X 0.8	1.56	41.3	2420	2620	2.2	39.6	1800	2000	500
1.0	2	0.44	0.3	0.9	1.56	16.5	425	435	1.8	14.7	215	230	1000
1.0	4	0.44	0.3	0.9	1.24	18.8	580	600	1.8	16.9	330	355	1000
1.0	5	0.44	0.3	0.9	1.24	20.3	660	690	1.8	18.4	390	420	1000
1.0	6	0.44	0.3	4.0 X 0.8	1.24	22.0	780	820	1.8	20.0	450	485	1000
1.0	8	0.44	0.3	4.0 X 0.8	1.40	24.4	930	970	2.0	22.8	590	640	1000
1.0	10	0.44	0.3	4.0 X 0.8	1.40	27.4	1100	1160	2.0	25.7	710	770	1000
1.0	12	0.44	0.3	4.0 X 0.8	1.40	28.2	1230	1300	2.0	26.6	810	880	1000
1.0	14	0.44	0.3	4.0 X 0.8	1.40	29.5	1360	1440	2.0	27.9	920	1000	1000

300/500 Volts, Multi Triad, STR. Copper, PVC/PE Insulated Aluminium Mylar Taped Individual and Overall Shielded, Armoured and Unarmoured Instrumentation Cables – generally as per IS

Area of conductor	No of triad	Min. thickness of insulation	ARMoured CABLES						UNARMoured CABLES				Normal Drum Length with ± 5%
			Min. thickness of inner sheath	Dimension of G.I. armour (wire/strip)	Min. thickness of outer sheath	Nominal overall diameter	Approx. weight of cable PE insulation	Approx. weight of cable PVC insulation	Nominal thickness of outer sheath	Nominal overall diameter	Approx. weight of cable PE insulation	Approx. weight of cable PVC insulation	
mm ²		mm	mm	mm	mm	mm	kg/km	kg/km	mm	mm	kg/km	kg/km	m
0.5	2	0.44	0.3	0.9	1.24	15.0	355	360	1.8	13.1	165	175	1000
0.5	4	0.44	0.3	0.9	1.24	16.9	455	475	1.8	15.0	240	260	1000
0.5	5	0.44	0.3	0.9	1.24	18.1	520	540	1.8	16.3	280	305	1000
0.5	6	0.44	0.3	0.9	1.24	19.5	580	610	1.8	17.6	325	350	1000
0.5	8	0.44	0.3	4.0 X 0.8	1.40	21.7	710	750	1.8	19.7	400	440	1000
0.5	10	0.44	0.3	4.0 X 0.8	1.40	24.2	840	890	2.0	22.6	500	550	1000
0.5	12	0.44	0.3	4.0 X 0.8	1.40	24.9	930	990	2.0	23.3	570	620	1000
0.5	14	0.44	0.3	4.0 X 0.8	1.40	26.1	1000	1070	2.0	24.4	640	700	1000
0.5	16	0.44	0.3	4.0 X 0.8	1.40	27.4	1100	1170	2.0	25.8	710	780	1000
0.5	19	0.44	0.3	4.0 X 0.8	1.40	28.7	1220	1310	2.0	27.1	810	900	1000
0.5	20	0.44	0.3	4.0 X 0.8	1.40	30.2	1290	1380	2.0	28.6	850	950	500/1000
0.5	24	0.44	0.3	4.0 X 0.8	1.56	33.6	1510	1620	2.0	31.6	1000	1110	500/1000
0.5	30	0.44	0.4	4.0 X 0.8	1.56	35.6	1740	1890	2.2	33.9	1220	1360	500/1000
0.5	37	0.44	0.4	4.0 X 0.8	1.56	38.3	2020	2200	2.2	36.6	1450	1630	500
0.75	2	0.44	0.3	0.9	1.56	15.8	390	400	1.8	13.9	190	200	1000
0.75	4	0.44	0.3	0.9	1.24	17.9	510	540	1.8	16.0	285	305	1000
0.75	5	0.44	0.3	0.9	1.24	19.3	590	610	1.8	17.4	335	360	1000
0.75	6	0.44	0.3	4.0 X 0.8	1.24	20.9	690	730	1.8	18.9	385	420	1000
0.75	8	0.44	0.3	4.0 X 0.8	1.40	23.2	810	860	2.0	21.5	500	550	1000
0.75	10	0.44	0.3	4.0 X 0.8	1.40	25.9	970	1020	2.0	24.3	600	660	1000
0.75	12	0.44	0.3	4.0 X 0.8	1.40	26.7	1070	1140	2.0	25.1	690	750	1000
0.75	14	0.44	0.3	4.0 X 0.8	1.40	27.9	1190	1260	2.0	26.3	770	850	1000
0.75	16	0.44	0.3	4.0 X 0.8	1.40	29.4	1280	1360	2.0	27.7	860	950	1000
0.75	19	0.44	0.3	4.0 X 0.8	1.40	30.8	1430	1530	2.0	29.2	990	1090	500/1000
0.75	20	0.44	0.3	4.0 X 0.8	1.40	32.8	1530	1640	2.0	30.9	1040	1150	500/1000
0.75	24	0.44	0.4	4.0 X 0.8	1.56	36.3	1810	1940	2.2	34.6	1260	1390	500
0.75	30	0.44	0.4	4.0 X 0.8	1.56	38.3	2080	2240	2.2	36.6	1510	1670	500
0.75	37	0.44	0.4	4.0 X 0.8	1.56	41.3	2420	2620	2.2	39.6	1800	2000	500
1.0	2	0.44	0.3	0.9	1.56	16.5	425	435	1.8	14.7	215	230	1000
1.0	4	0.44	0.3	0.9	1.24	18.8	580	600	1.8	16.9	330	355	1000
1.0	5	0.44	0.3	0.9	1.24	20.3	660	690	1.8	18.4	390	420	1000
1.0	6	0.44	0.3	4.0 X 0.8	1.24	22.0	780	820	1.8	20.0	450	485	1000
1.0	8	0.44	0.3	4.0 X 0.8	1.40	24.4	930	970	2.0	22.8	590	640	1000
1.0	10	0.44	0.3	4.0 X 0.8	1.40	27.4	1100	1160	2.0	25.7	710	770	1000
1.0	12	0.44	0.3	4.0 X 0.8	1.40	28.2	1230	1300	2.0	26.6	810	880	1000
1.0	14	0.44	0.3	4.0 X 0.8	1.40	29.5	1360	1440	2.0	27.9	920	1000	1000

For cables of sizes or triads not listed above the product data is available on request
 Larger Drum Lengths are possible against specific requirements on request
 Dimensions & weights are representative figures and may vary

300/500 Volts, Multi Pair, STR. Copper, PVC/PE Insulated Aluminium Mylar Taped Individual and Overall Shielded, Armoured and Unarmoured Instrumentation Cables – generally as per IS

Area of conductor	No of triad	Min. thickness of insulation	ARMOURED CABLES						UNARMOURED CABLES				Normal Drum Length with ± 5%
			Min. thickness of inner sheath	Dimension of G.I. armour (wire/strip)	Min. thickness of outer sheath	Nominal overall diameter	Approx. weight of cable PE insulation	Approx. weight of cable PVC insulation	Nominal thickness of outer sheath	Nominal overall diameter	Approx. weight of cable PE insulation	Approx. weight of cable PVC insulation	
mm ²		mm	mm	mm	mm	mm	kg/km	kg/km	mm	mm	kg/km	kg/km	m
1.0	18	0.44	0.3	4.0 X 0.8	1.40	29.5	1310	1380	2.0	27.9	870	940	1000
1.0	19	0.44	0.3	4.0 X 0.8	1.40	29.5	1340	1420	2.0	27.9	900	980	1000
1.0	20	0.44	0.3	4.0 X 0.8	1.40	31.0	1420	1500	2.0	29.4	950	1030	500/1000
1.0	24	0.44	0.3	4.0 X 0.8	1.56	34.5	1660	1750	2.0	32.5	1120	1220	500/1000
1.0	30	0.44	0.4	4.0 X 0.8	1.56	36.6	1920	2040	2.2	34.9	1370	1490	500
1.0	37	0.44	0.4	4.0 X 0.8	1.56	39.4	2240	2380	2.2	37.7	1640	1790	500
1.5	2	0.44	0.3	0.9	1.24	16.3	415	425	1.8	14.5	210	215 1000	
1.5	4	0.44	0.3	0.9	1.24	18.5	560	580	1.8	16.6	315	335	1000
1.5	5	0.44	0.3	4.0 X 0.8	1.24	19.8	640	660	1.8	18.1	370	395	1000
1.5	6	0.44	0.3	4.0 X 0.8	1.40	21.7	740	770	1.8	19.7	430	460	1000
1.5	8	0.44	0.3	4.0 X 0.8	1.40	24.1	900	940	2.0	22.4	560	600	1000
1.5	10	0.44	0.3	4.0 X 0.8	1.40	26.9	1070	1110	2.0	25.3	680	720	1000
1.5	12	0.44	0.3	4.0 X 0.8	1.40	27.8	1160	1220	2.0	26.1	770	830	1000
1.5	16	0.44	0.3	4.0 X 0.8	1.40	30.6	1410	1490	2.0	29.0	980	1050	500/1000
1.5	18	0.44	0.3	4.0 X 0.8	1.40	32.1	1540	1620	2.0	30.5	1080	1160	500/1000
1.5	19	0.44	0.3	4.0 X 0.8	1.40	32.1	1580	1670	2.0	30.5	1120	1210	500/1000
1.5	20	0.44	0.3	4.0 X 0.8	1.56	34.2	1700	1790	2.0	32.2	1180	1280	500/1000
1.5	24	0.44	0.4	4.0 X 0.8	1.56	37.9	2000	2110	2.2	36.2	1430	1540	500
1.5	30	0.44	0.4	4.0 X 0.8	1.56	40.0	2310	2450	2.2	38.3	1710	1850	500
1.5	37	0.44	0.4	4.0 X 0.8	1.56	43.1	2700	2870	2.2	41.4	2050	2220	500
2.5	2	0.53	0.3	0.9	1.24	18.5	510	520	1.8	16.6	270	285	1000
2.5	4	0.53	0.3	4.0 X 0.8	1.40	21.3	730	760	1.8	19.3	425	450	1000
2.5	5	0.53	0.3	4.0 X 0.8	1.40	23.1	840	870	2.0	21.5	520	560	1000
2.5	6	0.53	0.3	4.0 X 0.8	1.40	25.0	970	1010	2.0	23.3	610	650	1000
2.5	8	0.53	0.3	4.0 X 0.8	1.40	27.8	1150	1210	2.0	26.2	770	820	1000
2.5	10	0.53	0.3	4.0 X 0.8	1.40	31.3	1390	1460	2.0	29.6	930	1000	500/1000
2.5	12	0.53	0.3	4.0 X 0.8	1.56	32.6	1550	1630	2.0	30.7	1070	1150	500/1000
2.5	16	0.53	0.4	4.0 X 0.8	1.56	36.2	1940	2050	2.2	34.5	1390	1500	500
2.5	18	0.53	0.4	4.0 X 0.8	1.56	38.1	2110	2230	2.2	36.4	1540	1660	500
2.5	19	0.53	0.4	4.0 X 0.8	1.56	38.1	2180	2300	2.2	36.4	1610	1730	500
2.5	20	0.53	0.4	4.0 X 0.8	1.56	40.2	2290	2420	2.2	38.5	1690	1830	500
2.5	24	0.53	0.4	4.0 X 0.8	1.72	44.7	2710	2870	2.2	42.7	2000	2160	500
2.5	30	0.53	0.5	4.0 X 0.8	1.72	47.5	3200	3400	2.4	45.7	2460	2660	500
2.5	37	0.53	0.5	4.0 X 0.8	1.88	51.6	3780	4030	2.4	49.4	2950	3200	500

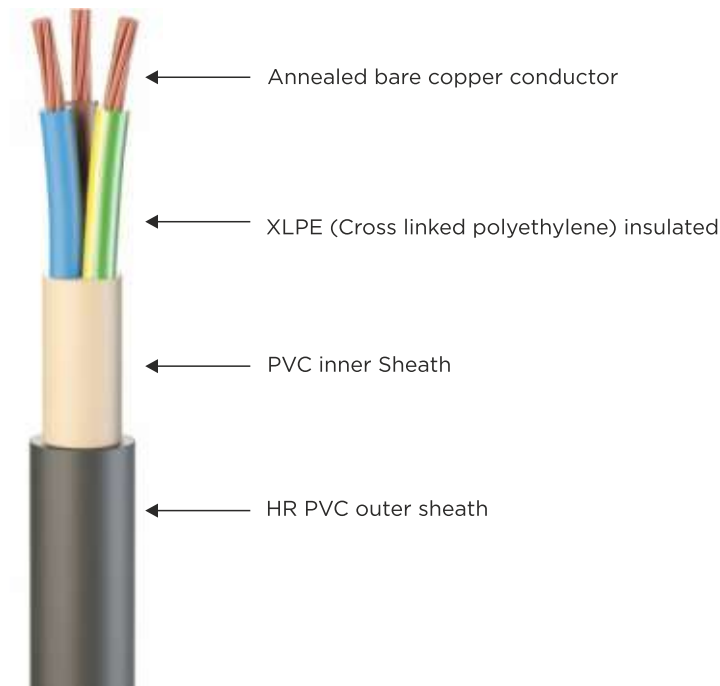
Dimensions & Weights are representative figures and may vary



300/500 Volts, Multi Pair, STR. Copper, PVC/PE Insulated Aluminium Mylar Taped Individual and Overall Shielded, Armoured and Unarmoured Instrumentation Cables – generally as per IS

Area of conductor	No of triad	Min. thickness of insulation	ARMOURED CABLES						UNARMOURED CABLES				Normal Drum Length with ± 5%
			Min. thickness of inner sheath	Dimension of G.I. armour (wire/strip)	Min. thickness of outer sheath	Nominal overall diameter	Approx. weight of cable PE insulation	Approx. weight of cable PVC insulation	Nominal thickness of outer sheath	Nominal overall diameter	Approx. weight of cable PE insulation	Approx. weight of cable PVC insulation	
mm ²		mm	mm	mm	mm	mm	kg/km	kg/km	mm	mm	kg/km	kg/km	m
0.5	1	0.44	0.3	0.9	1.24	10.4	200	205	1.8	8.6	86	91	1000
0.5	2	0.44	0.3	0.9	1.24	13.7	305	315	1.8	11.9	140	150	1000
0.5	4	0.44	0.3	0.9	1.24	15.4	385	405	1.8	13.5	195	215	1000
0.5	5	0.44	0.3	0.9	1.24	16.5	435	460	1.8	14.6	225	250	1000
0.5	6	0.44	0.3	0.9	1.24	17.7	490	520	1.8	15.8	260	285	1000
0.5	8	0.44	0.3	0.9	1.24	19.4	570	610	1.8	17.6	315	355	1000
0.5	10	0.44	0.3	4.0 X 0.8	1.40	21.8	710	760	1.8	19.7	375	425	1000
0.5	12	0.44	0.3	4.0 X 0.8	1.40	22.4	760	810	1.8	20.4	425	480	1000
0.5	14	0.44	0.3	4.0 X 0.8	1.40	23.4	830	900	1.8	21.3	475	540	1000
0.5	16	0.44	0.3	4.0 X 0.8	1.40	24.5	890	960	2.0	22.9	550	630	1000
0.5	19	0.44	0.3	4.0 X 0.8	1.40	25.7	990	1080	2.0	24.1	620	710	1000
0.5	20	0.44	0.3	4.0 X 0.8	1.40	27.0	1050	1140	2.0	25.4	660	750	1000
0.5	24	0.44	0.3	4.0 X 0.8	1.40	29.6	1210	1320	2.0	28.0	770	880	1000
0.5	30	0.44	0.3	4.0 X 0.8	1.40	31.2	1370	1510	2.0	29.6	910	1050	500/1000
0.5	37	0.44	0.3	4.0 X 0.8	1.56	33.8	1590	1760	2.0	31.9	1080	1250	500/1000
0.75	1	0.44	0.3	0.9	1.24	10.9	220	225	1.8	9.0	99	105	1000
0.75	2	0.44	0.3	0.9	1.24	14.5	345	355	1.8	12.6	160	175	1000
0.75	4	0.44	0.3	0.9	1.24	16.3	445	465	1.8	14.5	235	260	1000
0.75	5	0.44	0.3	0.9	1.24	17.5	500	530	1.8	15.7	275	305	1000
0.75	6	0.44	0.3	0.9	1.24	18.8	560	600	1.8	17.0	315	350	1000
0.75	8	0.44	0.3	4.0 X 0.8	1.24	20.6	680	730	1.8	18.9	395	435	1000
0.75	10	0.44	0.3	4.0 X 0.8	1.40	23.3	830	890	1.8	21.3	475	530	1000
0.75	12	0.44	0.3	4.0 X 0.8	1.40	24.0	900	960	2.0	22.4	560	620	1000
0.75	14	0.44	0.3	4.0 X 0.8	1.40	25.1	990	1070	2.0	23.5	630	700	1000
0.75	16	0.44	0.3	4.0 X 0.8	1.40	26.3	1090	1170	2.0	24.7	700	780	1000
0.75	19	0.44	0.3	4.0 X 0.8	1.40	27.6	1190	1290	2.0	26.0	800	900	1000
0.75	20	0.44	0.3	4.0 X 0.8	1.40	29.1	1250	1360	2.0	27.4	840	950	1000
0.75	24	0.44	0.3	4.0 X 0.8	1.40	32.0	1450	1580	2.0	30.3	990	1120	500/1000
0.75	30	0.44	0.3	4.0 X 0.8	1.56	34.0	1690	1850	2.0	32.1	1180	1340	500/1000
0.75	37	0.44	0.4	4.0 X 0.8	1.56	36.8	1980	2180	2.2	35.1	1440	1640	500
1.0	1	0.44	0.3	0.9	1.24	11.3	240	245	1.8	9.4	110	115	1000
1.0	2	0.44	0.3	0.9	1.24	15.2	380	390	1.8	13.3	185	200	1000
1.0	4	0.44	0.3	0.9	1.24	17.2	500	520	1.8	15.3	280	305	1000
1.0	5	0.44	0.3	0.9	1.24	18.5	570	600	1.8	16.6	330	360	1000
1.0	6	0.44	0.3	0.9	1.24	19.9	640	680	1.8	18.0	380	415	1000
1.0	8	0.44	0.3	4.0 X 0.8	1.40	22.1	810	860	1.8	20.1	475	520	1000
1.0	10	0.44	0.3	4.0 X 0.8	1.40	24.7	930	990	2.0	23.0	600	660	1000
1.0	12	0.44	0.3	4.0 X 0.8	1.40	25.4	1040	1110	2.0	23.8	680	750	1000
1.0	14	0.44	0.3	4.0 X 0.8	1.40	26.6	1150	1240	2.0	25.0	770	850	1000

Svarn LSLH Power & Control Cables



TECHNICAL DATA

- Nominal voltage: 0.6 - 1kV
- Temperature range: -40°C to +120°C
- Test voltage: 3kV (AC)
- Torsion resistance: $\pm 100^\circ/\text{m}$
- Maximum tensile load: 15N/mm² (in operation)
- Minimum bending radius: 12x cable dia

FEATURES

- Used in extreme weather conditions (hydrocarbon resistant)
- Flexibility for fast and easy installation
- Thermal stress resistant
- Low Smoke Low Halogen
- Flame & fire retardant
- Oil & petrochemical resistant
- UV resistant

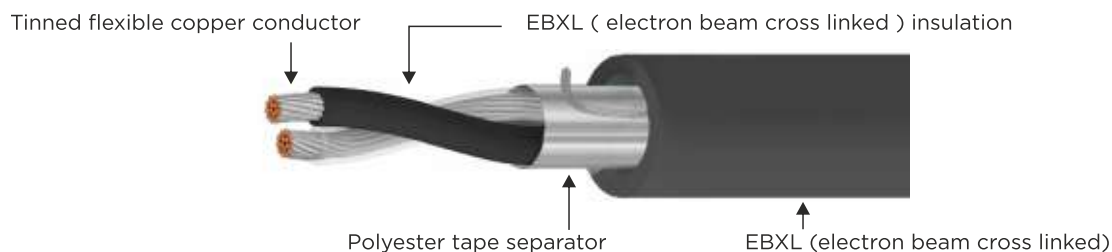
Item Code	No of Cores & Cross Sectional Area	Overall Dia of Cable	Approx. Weight of Cable
	sq.mm	mm	kg/km
FGCBWC2C1.5	2 X 1.5	11.6	192
FGCBWC2C2.5	2 X 2.5	12.4	229
FGCBWC2C4	2 x 4	13.6	290
FGCBWC2C6	2 X 6	14.5	353
FGCBWC2C10	2 X 10	16.6	489
FGCBWC2C16	2 x 16	18.6	662
FGCBWC2C25	2 X 25	22	964
FGCBWC2C35	2 X 35	24.2	1230
FGCBWC2C50	2 x 50	27.2	1594
FGCBWC2C70	2 X 70	31.2	2169



Item Code	No of Cores & Cross Sectional Area	Overall Dia of Cable	Approx. Weight of Cable
	sq.mm	mm	kg/km
FGCBWC3C1.5	3 X 1.5	12.1	213
FGCBWC3C2.5	3 X 2.5	12.8	257
FGCBWC3C4	3 x 4	14.2	331
FGCBWC3C6	3 x 6	15.3	412
FGCBWC3C10	3 x 10	17.5	585
FGCBWC3C16	3 x 16	19.6	1188
FGCBWC3C25	3 x 25	23.3	1537
FGCBWC3C35	3 X 35	25.7	2000
FGCBWC3C50	3 x 50	28.9	2815
FGCBWC3C70	3 X 70	33.8	3755
FGCBWC3C95	3 X 95	38.2	4620
FGCBWC3C120	3 X 120	42	5807
FGCBWC3C150	3 x 150	47.4	7155
FGCBWC3C185	3 x 185	52.3	9327
FGCBWC3C240	3 x 240	59.2	11191
FGCBWC3C300	3 X 300	65.2	11489
FGCBWC3C400	3 x 400	67.8	245
FGCBWC4C1.5	4 X 1.5	12.8	299
FGCBWC4C2.5	4 X 2.5	13.8	393
FGCBWC4C6	4 x 6	15.3	494
FGCBWC4C10	4 x 10	16.5	707
FGCBWC4C16	4 x 16	21.3	987
FGCBWC4C25	4 x 25	25.4	1466
FGCBWC4C35	4 X 35	28.1	1898
FGCBWC4C50	4 x 50	31.8	2498
FGCBWC4C70	4 x 70	37.4	3536
FGCBWC4C95	4 x 95	42.2	4720
FGCBWC4C120	4 X 120	47.1	5904
FGCBWC4C150	4 x 150	52.4	7307
FGCBWC4C185	4 x 185	58.1	9048
FGCBWC4C240	4 X 240	65.7	11797
FGCBWC4C300	4 x 300	72.4	14552
FGCBWC4C400	4 X 400	78.6	18515
FGCBWC5C1.5	5 X 1.5	13.7	278
FGCBWC5C2.5	5 x 2.5	14.8	348
FGCBWC5C4	5 x 4	16.4	458
FGCBWC5C6	5 x 6	17.8	585
FGCBWC5C10	5 x 10	20.5	847
FGCBWC5C16	5 x 16	23.2	1192
FGCBWC5C25	5 x 25	27.7	1772
FGCBWC5C35	5 X 35	30.7	2319
FGCBWC5C50	5 x 50	35.6	3125
FGCBWC5C70	5 x 70	41.2	4333
FGCBWC5C95	5 x 95	47.1	5866

Svarn High Temperature EBXL Cables

Svarn EBXL Insulated Cables are suitable for internal wiring for petrochemical plants, oil processing industries, fire prone areas, fuel dispensing bunks, power stations, plants and machineries.



TECHNICAL DATA

- Nominal voltage: 0.6 / 1.0 kV
- Temperature range: -40 to +125°C
- Test voltage: 3.5kV
- Short circuit temperature: 280°C
- Bending radius (Min): 2x cable dia
(Max): 4x cable dia
- As per IEC 60502 standard

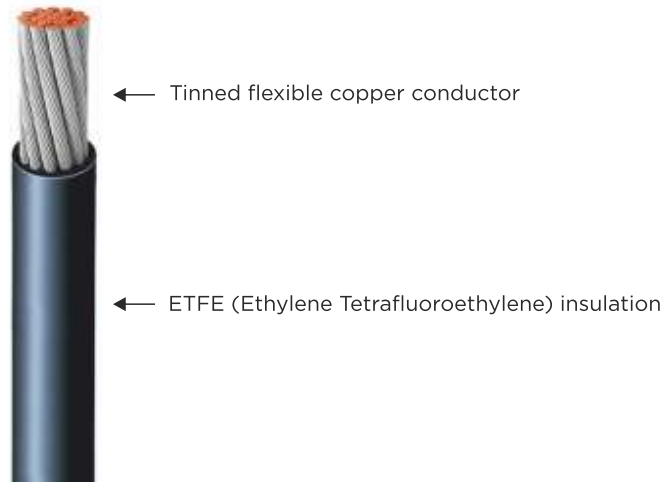
FEATURES

- Used in extreme weather conditions (UV Resistance)
- Oil & chemical resistant
- Thermal stress resistant
- Flame & fire resistant
- Halogen free, low smoke emission and toxicity during fire
- Ozone resistant

Item Code	No of Cores & Cross Sectional Area	Overall Dia of Cable	Approx. Weight of Cable
	sq.mm	mm	kg/km
FGCBFRC4C0.25	4 x 0.25	5.7	41
FGCBFRC4C0.5	4 x 0.5	6.4	63
FGCBFRC2C0.75	2 x 0.75	6.9	64
FGCBFRC3C0.75	3 x 0.75	7.7	76
FGCBFRC4C0.75	4 x 0.75	8	91
FGCBFRC5C0.75	5 x 0.75	8.9	111
FGCBFRC2C1	2x1	7.8	76
FGCBFRC3C1	3x1	8.2	92
FGCBFRC2C1.5	2 x 1.5	8.1	88
FGCBFRC3C1.5	3 x 1.5	8.6	111
FGCBFRC4C1.5	4 x 1.5	9.5	138
FGCBFRC5C1.5	5x1.5	10.8	171
FGCBFRC7C1.5	7 x 1.5	12.7	243
FGCBFRC2C2.5	2x2.5	9.4	131
FGCBFRC3C2.5	3 x 2.5	10.5	171
FGCBFRC4C2.5	4 x 2.5	11.7	211
FGCBFRC5C2.5	5x2.5	12.8	256
FGCBFRC4C4	4x4	13.4	301
FGCBFRC5C4	5x4	15	269
FGCBFRC4C10	4 x 10	19.5	701
FGCBFRC5C10	5 x 10	21.9	841

Svarn High Temperature ETFE Cables

Svarn ETFE Insulated Cables are suitable for installation in high temperature prone area such as petrochemical plants, oil processing industries, fire prone areas, fuel dispensing bunks, power stations, plants and machineries.



TECHNICAL DATA

- Rated voltage: 0.6 kV
- Test voltage: 1.5 kV
- Temperature range: up to 200°C
- Bending radius (approx.): 8x cable dia
- As per IEC 60502 standard

FEATURES

- Used in extreme weather conditions (UV resistant)
- Excellent oil & chemical resistance
- Thermal stress resistant
- High flexibility & stripability for easy installation
- Flame & fire resistant
- Heat aging resistant

Item Code	Size of Conductor (dia)	Overall Dia of Cable	Approx. Weight of Cable
	AWG	mm	kg/km
FGCBETFE24AWG	24	1.3	4.2
FGCBETFE22AWG	22	1.5	5.8
FGCBETFE20AWG	20	1.6	7.7
FGCBETFE18AWG	18	1.9	10.9
FGCBETFE16AWG	16	2.2	15.9
FGCBETFE14AWG	14	2.5	22.5
FGCBETFE12AWG	12	3	35.8
FGCBETFE10AWG	10	3.5	54.8

Svarn High Temperature PTFE Cables

Svarn PTFE Insulated Cables are suitable for installation in high temperature prone area such as petrochemical plants, oil processing industries, fire prone areas, fuel dispensing bunks, power stations, plants & machineries.



TECHNICAL DATA

- Rated voltage: 0.6 kv
- Test voltage: 1.5 kv
- Temperature range: -75°C to +190°C
- Bending radius (Approx.): 8x cable dia
- As per Def 61-12 Part 8 standard

FEATURES

- Used in extreme weather conditions (UV resistant)
- Excellent oil & chemical resistance
- Thermal stress resistant
- High flexibility & stripability for easy installation
- Flame & fire resistant
- Smoke free

Item Code	Size of Conductor Nominal dia (mm)	Overall Dia of Cable	Approx. Weight of Cable
		mm	kg/km
FGCBPTFE24AWG	0.24	0.55	0.85
FGCBPTFE22AWG	0.25	0.56	0.97
FGCBPTFE20AWG	0.30	0.61	1.11
FGCBPTFE18AWG	0.32	0.63	1.33
FGCBPTFE16AWG	0.36	0.69	1.41
FGCBPTFE14AWG	0.40	0.72	1.84
FGCBPTFE12AWG	0.45	0.77	1.98
FGCBPTFE10AWG	0.50	0.82	2.27
FGCBPTFE12AWG	0.60	0.95	3.05
FGCBPTFE10AWG	0.75	1.05	4.5
FGCBPTFE12AWG	1.0	1.35	7.2

Svarn High Temperature Siliheat Cables

Svarn Silicone Insulated Cables are suitable for installation in high temperature areas and rotating parts like motors and generators. These cables are also suitable for large machines like shipbuilding and railways.



TECHNICAL DATA

- Rated voltage : 0.6/1.0 kV
- Test voltage : 3.5 kV
- Temperature range : -60°C to +180°C

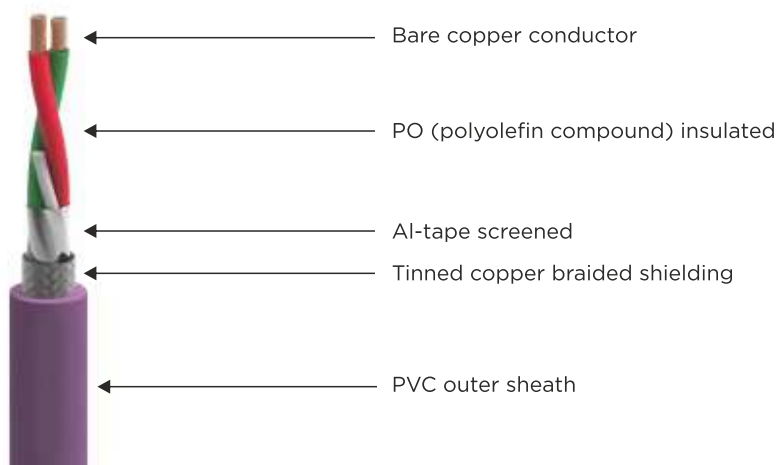
FEATURES

- Used in extreme weather conditions (UV resistant)
- Excellent oil & chemical resistance
- High mechanical resistant
- High thermal shock resistant
- High flexibility & stripability for easy installation
- Flame & fire resistant
- Smoke free

Item Code	No of Pairs & Cross Sectional Area	Nominal Stranding	Overall Dia of Cable	Approx. Weight of Cable
	Sq. mm		mm	kg/km
FGCBIC1P0.5	1x1.5	30x0.25	3.8	23.5
FGCBIC2P0.5	1x2.5	50x0.25	4.3	34.5
FGCBIC4P0.5	1x4	56x0.30	4.9	49
FGCBIC5P0.5	1x6	84x0.30	6	71
FGCBIC6P0.5	1x10	80x0.40	7.2	118
FGCBIC8P0.5	1x16	126x0.40	8.6	174
FGCBIC10P0.5	1x25	196x0.40	10.4	269
FGCBIC12P0.5	1x35	276x0.40	11.9	361
FGCBIC15P0.5	1x50	396x0.40	14.1	515
FGCBIC16P0.5	1x70	360x0.50	15.9	690
FGCBIC20P0.5	1x95	485x0.50	18.2	908
FGCBIC24P0.5	1x120	608x0.50	20.7	1169
FGCBIC30P0.5	1x150	756x0.50	23.2	1429
FGCBIC36P0.5	1x185	944x0.50	25.2	1816
FGCBIC2T0.5	1x240	1221x0.50	29.2	2445
FGCBIC3T0.5	1x300	1525x0.50	31.6	3014
FGCBIC2Q0.5	1x400	2037x0.50	34.6	3769

Svarn Armoured Bus Cables

Svarn PO Insulated Armoured Bus Cables are suitable for both mobile and fixed Industrial applications with harsh environmental conditions.



TECHNICAL DATA

- Conductor dia: AWG 18/7
- Number of cores: 2.0
(+2 filler strands)
- Rated voltage: 0.3 kV
- Test voltage: 1.5 kV
- Temperature range : -40°C to +80°C
- Bending radius (Min): 10x cable dia
- Approx. weight of cable: 85.5 kg/km
- Construction as per spec FF-816-1.4

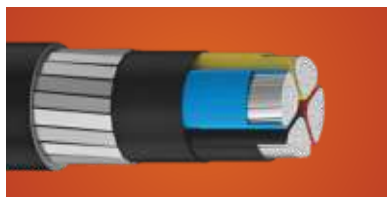
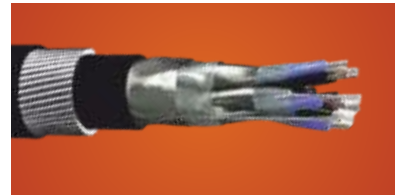
FEATURES

- Used in extreme weather conditions (UV resistant)
- Oil & chemical resistant
- Flexibility & stripability for fast and easy installation
- Thermal stress resistant
- Flame & fire retardant
- Ozone resistant

COMPREHENSIVE CABLING SOLUTIONS FOR OIL & GAS INDUSTRY

CONTROL CABLES

Flexible shielded cables (2 to 100 cores) are used to carry energy (300 volts to 1kV) and low frequency signals to control the motor drive or the generator for breaking, positioning or optimizing rotor RPMs. Special sheathing is available for ultra-low temperatures, while smaller cables are halogen-free. Our torsion- and oil-resistant cables are designed to last for 20 years and more.



POWER & CONTROL CABLES

Svarn unarmoured power and control cables are used for wiring fixed installations not subject to mechanical risk while Svarn armoured cables are recommended for areas where enhanced mechanical protection and electrical screening (Electro-Magnetic Compatibility) is required. The highly flexible range Svarn cables is recommended for installations and connections in narrow spaces where an optimal bending radius is required. The sectoral conductors of multicore cables provide further space and weight savings on the cable trays.

FIRE RESISTANT CABLES

In case of fire, equipment on board should remain functional to help in the evacuation process. Svarn has been at the forefront of technological progress in fire resistant cables designing control and power cables to be used in safety systems (emergency lighting, fire detection, warning systems, door opening, etc.). These cables ensure the integrity of electrical circuits for a certain time after the fire started. Svarn fire resistant cables improve safety in oil & gas processing industry by protecting people's lives from fires.



LOW-VOLTAGE FIXED INSTALLATION CABLES

Copper can be single or multicore, with EMC screening. Aluminium single core are larger; they weigh half as much, making them cheaper, and easier to handle and install in high towers.

FIBER-OPTIC CABLES

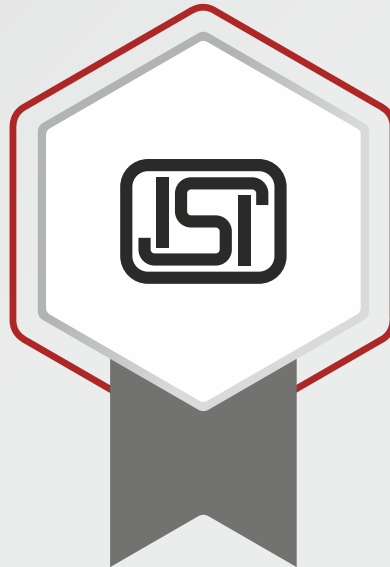
To assure high data transmission capacity for monitoring and control, Svarns rugged, halogen-free FO cables offer Electromagnetic Compatibility (EMC) in energy-dense areas. They are very flexible and can handle high torsion. Large cores (200 microns) make connectivity easier.



Electronic and data transmission cables

Thermoplastic Modified (TPM) 2 to 5-core sensor multicore and multipair cables measure wind speed, temperatures, and performance parameters, while 2-core Fieldbus cables are used in parallel with energy cables to digitally control all electronic and mechanical devices. 2-core Profibus cables deliver up to 12 Mbit/s for complex control services; and data transmission cables offer Industrial Ethernet speed. Increasingly, all cables are shielded for EMC protection

QUALITY PAR EXCELLENCE





BHARAT (INDIA)

CORPORATE OFFICE

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

WORKS

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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

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