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CABLES FOR ICE VEHICLE
APPLICATIONS

SVARN CABLES FOR ICE VEHICLE APPLICATIONS

Keeping pace with the ever-evolving automotive world

With over 4,000 meters of cables powering its functions, cables are indispensable in today's automobiles. Furthermore, considering the rigorous conditions they endure, including extreme temperatures and constant use, the quality of their construction becomes even more significant.

At Svarn, our nearly two-decade-long expertise positions us as cable specialists. Since 2005, we've been manufacturing cables, initially to support India's telecom industry. Within a decade, Svarn rose to prominence in the telecom cable market, credited to our superior quality and extensive product lineup.

Today, Svarn offers a comprehensive range of cables catering to various industries, including automotive, railways, defence, and renewables. Equipped with multiple production facilities, cutting-edge machinery, efficient processes, and a skilled workforce, we're ready to meet the automotive industry's evolving needs.

Upholding stringent quality standards is ingrained in our ethos. Every Svarn cable is meticulously crafted to meet country-specific or industry-mandated standards, ensuring compliance with international regulations and environmental sustainability, aligning with the automotive sector's commitment to eco-friendly practices.



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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AUTOMOTIVE CABLES (Type FLRY-B)

Svarn specialises in manufacturing of thin wall PVC insulated Class-B cables, widely used in all automotive wiring harnesses. These cables are popularly known as FLRY-B in the industry. These cables can operate under extreme conditions like electric, mechanical, chemical and fire, and also offer very high flexibility.

TECHNICAL DATA

- Cable Type : FLRY-B Thin wall (ISO 6722 Class B)
- Reference Specification : ISO 6722-1:2011(E)
- Conductor Material : Soft Annealed Electrolytic Copper
(Cu Purity - > 99.97 %; Conductivity - >101%)
- Insulation Material : HR PVC (Lead Free)
- Voltage Rating : 60V DC
- Temperature Range : -40°C to +105°C
- Special properties : Long Term Heat Ageing at 3000 Hrs.
- Cable Range : 0.13 to 50.00 mm²
- Product Safety : RoHS & REACH compliance



FEATURES

- Withstand Voltage Test (1 KV for 30 Min.)
- Pressure Test at High Temperature as per ISO 6722
- Low Temperature Winding at -40°C
- Low Temperature Impact at -15°C
- High Abrasion Resistance as per ISO 6722
- Short & Long Term Ageing as per ISO 6722
- Thermal Overload Ageing
- Heat Shrinkage as per ISO 6722
- Highly Resistant to Chemical Fluids as per ISO 6722
- Temperature and Humidity Cycling as per ISO 6722
- Resistance to Hot Water (85°C, 35 Days, 48V DC)

APPLICATION:

- Thin wall low voltage cables are widely used in new generation compact automobile wiring harnesses.
- Thick wall cables are used in 600V battery cable application.

PACKING:

- In coil or bobbin form

COLOR:

- Cables are available in various single & dual stripe colors as per customer requirement.

Conductor				Insulated Cable				
Cross Section Area	No./Strand Diameter (Max.)	Bunch Diameter (Max.)	Resistance @ 20°C (Max.)	Insulation Thickness (Min)	Overall Diameter		Current Carrying Capacity*	Weight Approx.
mm ²	mm	mm	Ω/km	mm	mm (min)	mm (max)	Amp	kg/km
0.13	7/0.16	0.55	136.00	0.20	0.95	1.05	6	2.3
0.22	7/0.21	0.70	84.80	0.20	1.10	1.20	9	3.2
0.35	12/0.21	0.90	54.40	0.20	1.20	1.40	12	4.5
0.50	16/0.21	1.10	37.10	0.22	1.40	1.60	14	6.0
0.75	24/0.21	1.30	24.70	0.24	1.70	1.90	20	8.8
1.00	32/0.21	1.50	18.50	0.24	1.90	2.10	24	11.3
1.50	30/0.26	1.80	12.70	0.24	2.20	2.40	30	16.0
2.50	50/0.26	2.20	7.60	0.28	2.70	3.00	42	26.0
4.00	56/0.31	2.80	4.71	0.32	3.40	3.70	58	41.3
6.00	84/0.31	3.40	3.14	0.32	4.00	4.30	75	60.0
10.00	80/0.41	4.50	1.82	0.48	5.30	6.00	108	106
16.00	126/0.41	5.80	1.16	0.52	6.40	7.20	143	166
25.00	196/0.41	7.20	0.743	0.52	7.90	8.70	189	252
35.00	276/0.41	8.50	0.527	0.64	9.40	10.40	233	355
50.00	396/0.41	10.50	0.368	0.71	11.00	12.20	289	502

- Svarn also manufactures thick and ultra thin wall type of automotive cable with symmetrical & asymmetrical conductor construction.
- * At 40°C ambient temperature.
- Svarn also manufactures up to 120 sqmm size of cable.

AUTOMOTIVE CABLES (Type T3)

Svarn specialises in manufacturing of PVC insulated Class-C (T3) cable with specially formulated PVC compound. These cables are manufactured with 99.9% pure annealed copper. Class-C cables offer very good electrical and mechanical properties. These cables can operate under extreme conditions.

TECHNICAL DATA

- Cable Type : FLRY-C Thin wall (ISO 6722 Class C)
- Reference Specification : ISO 6722-1:2011(E)
- Conductor Material : Soft Annealed Electrolytic Copper
(Cu Purity - > 99.97 %; Conductivity - >101%)
- Insulation Material : Specially formulated HR PVC (Lead Free)
- Voltage Rating : 60V DC
- Temperature Range : -40°C to +125°C
- Special properties : Long Term Heat Ageing at 3000 Hrs.
- Cable Range : 0.13 to 50.00 mm²
- Product Safety : RoHS & REACH compliance



FEATURES

- Withstand Voltage Test (1 KV for 30 Min.)
- Pressure Test at High Temperature as per ISO 6722
- Low Temperature Winding at -40°C
- Low Temperature Impact at -15°C
- High Abrasion Resistance as per ISO 6722
- Short & Long Term Ageing as per ISO 6722
- Thermal Overload Ageing
- Heat Shrinkage as per ISO 6722
- Highly Resistant to Chemical Fluids as per ISO 6722
- Temperature and Humidity Cycling as per ISO 6722
- Resistance to Hot Water (85°C, 35 Days, 48V DC)

APPLICATION:

- Thin wall low voltage cables are widely used in new generation compact automotive wiring harnesses.
- Flexible thin/thick wall battery cable used for battery wire connection.

PACKING:

- In coil or bobbin form

COLOR:

- Cables are available in various single & dual stripe colors as per customer requirement.

Conductor				Insulated Cable				
Cross Section Area	No./Strand Diameter (Max.)	Bunch Diameter (Max.)	Resistance @ 20°C (Max.)	Insulation Thickness (Min)	Overall Diameter		Current Carrying Capacity*	Weight Approx.
mm ²	mm	mm	Ω/km	mm	mm (min)	mm (max)	Amp	kg/km
0.13	7/0.16	0.55	136.00	0.20	0.95	1.05	7	2.3
0.22	7/0.21	0.70	84.80	0.20	1.10	1.20	10	3.2
0.35	12/0.21	0.90	54.40	0.20	1.20	1.40	13	4.5
0.50	16/0.21	1.10	37.10	0.22	1.40	1.60	17	6.0
0.75	24/0.21	1.30	24.70	0.24	1.70	1.90	22	8.8
1.00	32/0.21	1.50	18.50	0.24	1.90	2.10	27	11.3
1.50	30/0.26	1.80	12.70	0.24	2.20	2.40	35	16.0
2.50	50/0.26	2.20	7.60	0.28	2.70	3.00	48	26.0
4.00	56/0.31	2.80	4.71	0.32	3.40	3.70	66	41.3
6.00	84/0.31	3.40	3.14	0.32	4.00	4.30	86	60.0
10.00	80/0.41	4.50	1.82	0.48	5.30	6.00	123	106
16.00	126/0.41	5.80	1.16	0.52	6.40	7.20	164	166
25.00	196/0.41	7.20	0.743	0.52	7.90	8.70	216	252
35.00	276/0.41	8.50	0.527	0.64	9.40	10.40	266	355
50.00	396/0.41	10.50	0.368	0.71	11.00	12.20	331	502

- Svarn also manufactures thick and ultra thin wall type of automotive cable with symmetrical & asymmetrical conductor construction.
- * At 40°C ambient temperature.
- Svarn also manufactures up to 120 sqmm size of cable.

AUTOMOTIVE CABLES (Type - AV)

Svarn specialises in manufacturing of PVC insulated Low Voltage Auto Vinyl (AV) battery cables. These cables offer good electrical, mechanical and chemical properties during operation. These cables can operate under extreme weather conditions and also offer very high flexibility.

TECHNICAL DATA

- Cable Type : AV (Auto Vinyl)
- Reference Specification : JIS C 3406:1993
- Conductor Material : Soft Annealed Electrolytic Copper
(Cu Purity - > 99.97 %; Conductivity - >101%)
- Insulation Material : HR PVC (Lead Free)
- Voltage Rating : 60V DC
- Temperature Range : -40°C to +80°C
- Special properties : Heat Ageing at 120 hrs.
- Cable Range : 0.50 to 50.00 mm²
- Product Safety : RoHS & REACH compliance



APPLICATION:

- AV cables offer high heat resistance up to 80°C continuous application.
- Low voltage AV cables are widely used in battery cable application.

PACKING:

- In coil or bobbin form

COLOR:

- Cables are available in various single & dual stripe colors as per customer requirement.

Conductor				Insulated Cable				
Cross Section Area	No./Strand Diameter (Max.)	Bunch Diameter (Max.)	Resistance @ 20°C (Max.)	Insulation Thickness (Min)	Overall Diameter		Current Carrying Capacity*	Weight Approx.
mm ²	mm	mm	Ω/km	mm	mm (std)	mm (max)	Amp	kg/km
0.50	7/0.32	1.00	32.70	0.60	2.20	2.40	17	9.4
0.85	11/0.32	1.20	20.80	0.60	2.40	2.60	23	12.6
1.25	16/0.32	1.50	14.30	0.60	2.70	2.90	29	16.2
2.00	26/0.32	1.90	8.81	0.60	3.10	3.40	39	25.6
3.00	41/0.32	2.40	5.59	0.70	3.80	4.10	52	38.8
5.0	65/0.32	3.00	3.52	0.80	4.60	4.90	69	59.3
8.00	50/0.45	3.70	2.32	0.90	5.50	5.80	90	88.4
10.00	63/0.45	4.50	1.84	1.00	6.50	6.90	105	118
15.00	84/0.45	4.80	1.38	1.10	7.00	7.40	125	148
20.00	247/0.32	6.50	0.946	1.10	8.20	8.80	157	218
30.00	361/0.32	7.80	0.647	1.40	10.60	11.30	198	330
40.00	494/0.32	9.10	0.473	1.40	11.40	12.10	238	423
50.00	608/0.32	10.10	0.384	1.60	13.00	13.80	269	---

* At 40°C ambient temperature.

AUTOMOTIVE CABLES (Type - AVS)

Svarn specialises in manufacturing of PVC insulated Low Voltage Slim Auto Vinyl (AVS) battery cables. These cables offer high electrical, mechanical and chemical properties during operation. These cables can operate under extreme weather conditions and also offer very high flexibility.

TECHNICAL DATA

- Cable Type : AVS (Auto Vinyl Slim)
- Reference Specification : JASO D 611:2014
- Conductor Material : Soft Annealed Electrolytic Copper
(Cu Purity - > 99.97 %; Conductivity - >101%)
- Insulation Material : Plasticized PVC (Lead Free)
- Voltage Rating : 60V DC
- Temperature Range : -40°C to +80°C
- Special properties : Heat Ageing at 120 hrs.
- Cable Range : 0.30 to 8.00 mm²
- Product Safety : RoHS & REACH compliance



APPLICATION:

- AVS cables are widely used in all automobile wiring harnesses with continuous heat application @80°C.

PACKING:

- In coil or bobbin form

COLOR:

- Cables are available in various single & dual stripe colors as per customer requirement.

Conductor				Insulated Cable				
Cross Section Area	No./Strand Diameter (Max.)	Bunch Diameter (Max.)	Resistance @ 20°C (Max.)	Insulation Thickness (Min)	Overall Diameter		Current Carrying Capacity*	Weight Approx.
mm ²	mm	mm	Ω/km	mm	mm (std)	mm (max)	Amp	kg/km
0.30	7/0.26	0.80	50.20	0.50	1.80	1.90	13	---
0.50	7/0.32	1.00	32.70	0.50	2.00	2.10	17	8
0.85	11/0.32	1.20	20.80	0.50	2.20	2.30	22	11
1.25	16/0.32	1.50	14.30	0.50	2.50	2.60	28	16
2.00	26/0.32	1.90	8.81	0.50	2.90	3.10	38	24
3.00	41/0.32	2.40	5.59	0.60	3.60	3.80	51	37
5.00	65/0.32	3.00	3.52	0.70	4.40	4.60	69	57
8.00	50/0.45	3.70	2.32	0.80	5.30	5.60	90	88

* At 40°C ambient temperature.

AUTOMOTIVE CABLES (Type - AVSS)

Svarn specialises in manufacturing of PVC insulated Super Slim Auto Vinyl (AVSS) cables. These cables offer good electrical, mechanical and chemical properties during operation. These cables can operate under extreme weather conditions and also offer very high flexibility.

TECHNICAL DATA

- Cable Type : AVSS (Auto Vinyl Super Slim)
- Reference Specification : JASO D 611:2014
- Conductor Material : Soft Annealed Electrolytic Copper
(Cu Purity - > 99.97 %; Conductivity - >101%)
- Insulation Material : HR PVC (Lead Free)
- Voltage Rating : 60V DC
- Temperature Range : -40°C to +80°C
- Special properties : Heat Ageing at 120 hrs.
- Cable Range : 0.30 to 2.00 mm²
- Product Safety : RoHS & REACH compliance



APPLICATION:

- AVSS cables are widely used in all automobile wiring harnesses with continuous heat application @80°C

PACKING:

- In coil or bobbin form

COLOR:

- Cables are available in various single & dual stripe colors as per customer requirement.

Conductor				Insulated Cable				
Cross Section Area	No./Strand Diameter (Max.)	Bunch Diameter (Max.)	Resistance @ 20°C (Max.)	Insulation Thickness (Min)	Overall Diameter		Current Carrying Capacity*	Weight Approx.
mm ²	mm	mm	Ω/km	mm	mm (std)	mm (max)	Amp	kg/km
0.30	7/0.26	0.80	50.20	0.30	1.40	1.50	12.00	4.5
0.50	7/0.32	1.00	32.70	0.30	1.60	1.70	16.00	6.1
0.85	19/0.24	1.20	21.70	0.30	1.80	1.90	20.00	8.9
0.85	7/0.40	1.10	20.80	0.30	1.80	1.90	21.00	8.9
1.25	19/0.29	1.50	14.90	0.30	2.10	2.20	26.00	13.4
2.00	19/0.37	1.90	9.00	0.40	2.70	2.80	37.00	23.3
0.30f	19/0.16	0.80	48.80	0.30	1.40	1.50	12.00	---
0.50f	19/0.19	1.00	34.60	0.30	1.60	1.70	15.00	---
0.75f	19/0.23	1.20	23.60	0.30	1.80	1.90	20.00	---
1.25f	37/0.21	1.50	14.60	0.30	2.10	2.20	27.00	---
2.00f	37/0.26	1.80	9.50	0.40	2.60	2.70	36.00	---

* At 40°C ambient temperature.

AUTOMOTIVE CABLES (Type - AEX)

AEX cables are used in various wiring harnesses in the automobile sector. It provides power, control, signal and data communication and safety systems for all vehicles. AEX automotive cables offer high heat resistance capacity specially near the vehicle engine compartment. Also AEX cables can operate under extreme weather conditions and also offer high flexibility

TECHNICAL DATA

- Cable Type : AEX (Cross Linked Polyolefin Insulated)
- Reference Specification : JASO D 611:2014
- Conductor Material : Soft Annealed Electrolytic Copper
(Cu Purity - > 99.97 %; Conductivity - >101%)
- Insulation Material : Cross Linked Polyolefin, HFFR
- Voltage Rating : 60V DC
- Temperature Range : -40°C to +120°C
- Special properties : Heat Ageing at 120 hrs.
- Cable Range : 0.50 to 8.00 mm²
- Product Safety : RoHS & REACH compliance



APPLICATION:

- AEX cables are used in low voltage circuits with heat resistance property (120°C) in automobile wiring harnesses

PACKING:

- In coil or bobbin form

COLOR:

- Cables are available in various single & dual stripe colors as per customer requirement.

Conductor				Insulated Cable				
Cross Section Area	No./Strand Diameter (Max.)	Bunch Diameter (Max.)	Resistance @ 20°C (Max.)	Insulation Thickness (Min)	Overall Diameter		Current Carrying Capacity*	Weight Approx.
mm ²	mm	mm	Ω/km	mm	mm (std)	mm (max)	Amp	kg/km
0.50f	20/0.18	0.509	38.60	0.50	2.00	2.20	18	-
0.50	7/0.32	0.563	34.60	0.50	2.00	2.20	19	-
0.75f	30/0.18	0.763	25.80	0.50	2.20	2.40	23	-
0.85	11/0.32	0.885	22.00	0.50	2.20	2.40	25	-
1.25f	50/0.18	1.273	15.50	0.60	2.70	2.90	32	-
1.25	16/0.32	1.287	15.10	0.60	2.70	2.90	32	-
2.00f	37/0.26	1.964	10.10	0.60	3.00	3.30	41	-
2.00	26/0.32	2.091	9.30	0.60	3.10	3.40	44	-
3.00	41/0.32	3.297	5.90	0.70	3.80	4.10	59	-
5.00	65/0.32	5.228	3.72	0.80	4.60	4.90	79	-
8.00	50/0.45	7.952	2.45	0.80	5.30	5.60	102	-

* At 40°C ambient temperature.

AUTOMOTIVE CABLES (Type - AESSX)

AESSX wires feature thinner insulation compared to AEX wires, meeting JASO D608 standards. They are crafted with Very Thin Cross-Linked Polyethylene insulation, designed for heat-resistant low-voltage applications in automobiles.

TECHNICAL DATA

- Cable Type : AESSX (Polyolefin Insulated) Very Thin wall
- Reference Specification : JASO D 608
- Conductor Material : Soft-annealed electrolytic copper
(E-Cu ETP1 according to JIS C 3102) bare
- Insulation Material : Electron beam cross linked polyethylene
- Voltage Rating : 1 kV
- Temperature Range : -40°C to +120°C
- Special properties : Heat Ageing at 3000 hrs.
- Cable Range :
- Product Safety : RoHS & REACH compliance



APPLICATION:

- AESSX cables are used in low voltage circuits requiring heat resistance (120°C) such as automobiles (vehicles and motorcycles).

PACKING:

- In coil or bobbin form

COLOR:

- Cables are available in single core color as per customer requirement.

Conductor				Insulated Cable				
Cross Section Area	No./Strand Diameter (Max.)	Bunch Diameter (Max.)	Resistance @ 20°C (Max.)	Insulation Thickness (Min)	Overall Diameter		Current Carrying Capacity*	Weight Approx.
mm ²	mm	mm	Ω/km	mm	mm (std)	mm (max)	Amp	kg/km
0.3f	19/0.16	0.38	0.8	0.3	1.4	1.5	120	48.8
0.5f	19/0.19	0.53	1.0	0.3	1.6	1.7	120	34.6
0.75f	19/0.23	0.78	1.2	0.3	1.8	1.9	120	23.6
1.25f	37/0.21	1.28	1.5	0.3	2.1	2.2	120	14.6
2f	37/0.26	1.96	1.8	0.4	2.6	2.7	120	9.50

AUTOMOTIVE CABLES (Type - AESX f)

AESX f wire harnesses are utilised in low-tension electric circuits of automobiles.

TECHNICAL DATA

- Cable Type : AESX f (Low tension cables for automobiles)
Polyethylene insulated Very Thick wall
- Reference Specification : JASO D 611
- Conductor Material : Soft-annealed electrolytic copper
(E-Cu ETP1 according to JIS C 3102) bare
- Insulation Material : Electron beam cross linked polyethylene
- Voltage Rating : 1 kV
- Temperature Range : -40°C to +120°C
- Special properties : Heat Ageing at 3000 hrs.
- Cable Range :
- Product Safety : RoHS & REACH compliance



APPLICATION:

AESX f serves various functions including starting, charging, lighting signal, and instrument panel circuits in motorcars and motorcycles

PACKING:

- In coil or bobbin form

COLOR:

- Cables are available in single core color as per customer requirement.

Conductor				Insulation Wall Thickness Nom.	Cable			Max. Conductor Resistance at 20°C	Current Carrying Capacity*	Standard Length*
Nominal Cross-Section	No. of Strand	Dia. of Single wire (Max.)	Conductor Diameter Approx.		Overall Diameter		Weight Approx.			
mm²	nos	mm	mm	mm	(nom) mm	(max) mm	kg/km	Ω/km	Amp	mtrs
0.3	19	0.16	0.8	0.30	1.4	1.5	5	48.8	12	1000
0.5	19	0.19	1.0	0.30	1.6	1.7	7	34.6	15	1000
0.75	19	0.23	1.2	0.30	1.8	1.9	9	23.6	19	1000
1.25	37	0.21	1.5	0.30	2.1	2.2	14	14.6	26	1000
2	37	0.26	1.8	0.40	2.6	2.7	22	9.50	35	500

- Other lengths as per customer order.
- Current Carrying Capacity given is for the maximum conductor operating temperature of 120°C and ambient air temperature of 40°C.

AUTOMOTIVE CABLES (Type - EB)

EB wires are employed in the low-tension electric circuits of automotive batteries.

TECHNICAL DATA

- Cable Type : EB (Earth bond low voltages cables for automobiles)
- Reference Specification : JASO D 611
- Conductor Material : Soft-annealed electrolytic copper (E-Cu ETP1 according to JIS C 3102) bare
- Insulation Material : Lead-free PVC
- Voltage Rating : 1 kV
- Temperature Range : -40°C to +80°C
- Special properties : Heat Ageing at 3000 hrs.
- Cable Range :
- Product Safety : RoHS & REACH compliance



APPLICATION:

- Used in motorcycles and other motor vehicles for starting, charging, lighting signal and instrument panel circuits.

PACKING:

- In coil or bobbin form

COLOR:

- Cables are available in single core color as per customer requirement

Conductor				Insulation Wall Thickness Nom.	Cable		Max. Conductor Resistance at 20°C	Current Carrying Capacity*	Standard Length*
Nominal Cross-Section	No. of Strand	Dia. of Single wire (Max.)	Conductor Diameter Approx.		Overall Diameter	Weight Approx.			
mm ²	nos	mm	mm	(nom)mm	(max)mm	kg/km	Ω/km	Amp	mtrs
5	7/9/0.32	3.1	0.60	4.3	4.7	57	3.71	50	500
9	7/16/0.32	4.2	0.60	5.4	5.8	94	2.09	72	500
10	19/6/0.32	4.2	0.60	5.5	5.9	96	2.05	72	500
15	19/9/0.32	5.3	0.60	6.5	6.9	140	1.37	94	500
20	19/13/0.32	6.5	0.60	7.7	8.1	191	0.946	119	500
30	19/19/0.32	7.8	0.60	9.0	9.4	275	0.647	150	500
40	19/26/0.32	9.1	0.60	10.3	10.8	371	0.473	182	500
50	19/32/0.32	10.1	0.60	11.3	11.9	454	0.384	207	500
60	19/39/0.32	11.1	0.60	12.3	12.9	548	0.315	233	500
85	19/56/0.32	13.1	0.60	14.3	15.0	773	0.220	229	500

- Other length as per Customer order.
- Current Carrying capacity given is for the maximum conductor operating temperature of 120°C and ambient air temperature of 40°C.

AUTOMOTIVE CABLES (TXL)

(Low Voltage Primary Cable as per SAE J 1128)

Svarn specialises in manufacturing of thin wall Cross-Linked Polyolefin insulated cables for high temperature applications. TXL wires are naturally cured under control in hot humidity chamber to enhance high temperature resistance and good mechanical strength.

TECHNICAL DATA

- Cable Type : TXL (Thin Wall, Cross Linked Polyolefin Insulation)
- Reference Specification : SAE J 1128 DEC 2015
- Conductor Material : Soft Annealed Electrolytic Copper (Cu Purity - > 99.97 %; Conductivity - >101%)
- Insulation Material : Cross Linked Polyolefin (HFFR)
- Voltage Rating : 60V DC / 25 V AC
- Temperature Range : -40°C to +125°C
- Special properties : Heat Ageing at 3000 hrs.
- Cable Range : 24 to 8 AWG (0.22 to 8.00 mm²)
- Product Safety : RoHS & REACH compliance



APPLICATION:

- Heat resistant, thin wall, low voltage cables are widely used in new generation compact automobile wiring harnesses

PACKING:

- In coil or bobbin form

COLOR:

- Cables are available in various single & dual stripe colors as per customer requirement

Conductor			Insulated Cable				
Size	Bunch Diameter (Max.)	No./Strand Diameter (Max.)	Insulation Thickness (nom)	Overall Diameter		Current Carrying Capacity*	Weight Approx.
AWG/mm ²	mm	mm	mm	mm (min)	mm (max)	Amp	kg/km
24 (0.22)	0.70	7/0.20	0.40	1.40	1.50	11.00	3.98
22 (0.35)	0.90	7/0.26	0.40	1.50	1.70	14.00	5.39
20 (0.50)	1.10	16/0.21	0.40	1.70	1.90	19.00	7.63
18 (0.80)	1.30	24/0.21	0.40	2.00	2.20	25.00	10.68
16 (1.00)	1.50	36/0.21	0.40	2.20	2.40	32.00	14.84
14 (2.00)	2.00	26/0.32	0.40	2.50	2.70	42.00	21.71
12 (3.00)	2.40	41/0.32	0.46	3.10	3.30	57.00	33.55
10 (5.00)	3.10	65/0.32	0.50	3.80	4.00	77.00	52.00
8 (8.00)	4.30	101/0.32	0.55	4.60	4.90	99.00	79.55

- Svarn also manufactures GXL (General Purpose) & SXL (Special Purpose) automotive cables as per SAE J 1128 Standard.
- At 40°C ambient temperature.

AUTOMOTIVE CABLES (GXL)

(Low Voltage Primary Cable as per SAE J 1128)

Svarn specialises in manufacturing of general purpose Cross-Linked Polyolefin insulated cables for high temperature applications. GXL wires are naturally cured under control in hot humidity chamber to enhance high temperature resistance and good mechanical strength.

TECHNICAL DATA

- Cable Type : GXL (General Purpose, Cross Linked Polyolefin Insulation)
- Reference Specification : SAE J 1128 DEC 2015
- Conductor Material : Soft Annealed Electrolytic Copper (Cu Purity - > 99.97 %; Conductivity ->101%)
- Insulation Material : Cross Linked Polyolefin Insulated
- Voltage Rating : 60V DC / 25 V AC
- Temperature Range : -40°C to +125°C
- Special properties : Heat Ageing at 3000 hrs.
- Cable Range : 20 to 8 AWG (0.50 to 8.00 mm²)
- Product Safety : RoHS & REACH compliance



APPLICATION:

- These low voltage GXL cables are widely used in new generation compact automobile wiring harnesses

PACKING:

- In coil or bobbin form

COLOR:

- Cables are available in various single & dual stripe colors as per customer requirement

Conductor			Insulated Cable				
Size	Bunch Diameter (Max.)	No./Strand Diameter (Max.)	Insulation Thickness (nom)	Overall Diameter		Current Carrying Capacity*	Weight Approx.
AWG/mm ²	mm	mm	mm	mm (min)	mm (max)	Amp	kg/km
20 (0.50)	1.10	16/0.21	0.58	2.10	2.40	20	9.74
18 (0.80)	1.30	24/0.21	0.58	2.30	2.50	26	12.48
16 (1.00)	1.50	36/0.21	0.58	2.60	2.90	33	17.46
14 (2.00)	2.00	26/0.32	0.58	2.90	3.20	44	24.63
12 (3.00)	2.40	41/0.32	0.66	3.50	3.80	59	37.07
10 (5.00)	3.10	65/0.32	0.79	4.40	4.70	80	58.28
8 (8.00)	4.30	101/0.32	0.94	5.40	6.00	106	90.93

- Svarn also manufactures TXL (Thin Wall) & SXL (Special Purpose) automotive cables as per SAE J 1128 Standard.
- At 40°C ambient temperature.

AUTOMOTIVE CABLES (SXL)

(Low Voltage Primary Cable as per SAE J 1128)

Svarn specialises in manufacturing of special purpose Cross-Linked Polyolefin insulated cables for high temperature applications. SXL wires are naturally cured under control in hot humidity chamber to enhance high temperature resistance and good mechanical strength.

TECHNICAL DATA

- Cable Type : SXL (Special Purpose, Cross Linked Polyolefin Insulation)
- Reference Specification : SAE J 1128 DEC 2015
- Conductor Material : Soft Annealed Electrolytic Copper (Cu Purity - > 99.97 %; Conductivity ->101%)
- Insulation Material : Cross Linked Polyolefin (HFFR)
- Voltage Rating : 60V DC / 25 V AC
- Temperature Range : -40°C to +125°C
- Special properties : Heat Ageing at 3000 hrs.
- Cable Range : 20 to 8 AWG (0.50 to 8.00 mm²)
- Product Safety : RoHS & REACH compliance



APPLICATION:

- SXL low voltage cables are widely used for special purpose and new generation compact automobile wiring harnesses

PACKING:

- In coil or bobbin form

COLOR:

- Cables are available in various single & dual stripe colors as per customer requirement

Conductor			Insulated Cable				
Size	Bunch Diameter (Max.)	No./Strand Diameter (Max.)	Insulation Thickness (nom)	Overall Diameter		Current Carrying Capacity*	Weight Approx.
AWG/mm ²	mm	mm	mm	mm (min)	mm (max)	Amp	kg/km
20 (0.50)	1.10	16/0.21	0.74	2.40	2.80	21	11.72
18 (0.80)	1.30	24/0.21	0.76	2.60	3.00	27	14.90
16 (1.00)	1.50	36/0.21	0.81	3.00	3.40	34	20.58
14 (2.00)	2.00	26/0.32	0.89	3.50	3.90	46	29.74
12 (3.00)	2.40	41/0.32	0.94	4.20	4.60	61	44.11
10 (5.00)	3.10	65/0.32	1.04	4.90	5.30	81	64.47
8 (8.00)	4.30	101/0.32	1.09	5.80	6.20	106	95.02

- Svarn also manufactures TXL (Thin Wall) & GXL (General Purpose) automotive cables as per SAE J 1128 Standard.
- At 40°C ambient temperature.

AUTOMOTIVE BATTERY CABLES

Svarn specialises in manufacturing of PVC insulated battery cables for automotive vehicles. These cables are widely used in all automotive and industrial wiring applications.

TECHNICAL DATA

- Cable Type : PVC Insulated Cable for Motor Vehicle (Battery Cable)
- Reference Specification : IS 2465:1984
- Conductor Material : Flexible Class 5 conductor as per IS 8130 (Cu Purity - > 99.97 %; Conductivity ->101%)
- Insulation Material : Type A (Lead free) PVC as per IS 5831
- Voltage Rating : Up to 100 V
- Temperature Range : -15°C to 70°C
- Special properties : Heat Ageing at 168 hrs.
- Cable Range : 0.50 to 50.00 mm²
- Product Safety : RoHS & REACH compliance



APPLICATION:

- PVC Insulated Battery cables are commonly used in automotive vehicle for battery & engine application.
- These cables are also used in industrial wiring application.

PACKING:

- In coil or bobbin form

COLOR:

- Cables are available in various single & dual stripe colors as per customer requirement

Conductor			Insulated Cable			
Size	Bunch Diameter (Max.)	No./Strand Diameter (Max.)	Insulation Thickness (nom)	Overall Diameter	Current Carrying Capacity*	Weight Approx.
mm ²	mm	Ω/km	mm	mm	Amp	kg/km
0.50	16/0.20	39.00	0.60	2.20	11	9.1
0.75	24/0.20	26.00	0.60	2.40	14	11.9
1.00	32/0.20	19.50	0.70	2.60	17	15.9
1.50	48/0.20	13.30	0.70	2.90	21	21.3
2.50	80/0.20	7.98	0.70	3.60	30	31.0
4.00	56/0.30	4.95	0.80	4.10	40	48.2
6.00	84/0.30	3.30	0.80	4.70	51	67.9
10.00	140/0.30	1.91	1.00	6.30	72	109.7
16.00	126/0.40	1.21	1.00	7.30	96	164.2
25.00	196/0.40	0.780	1.20	9.10	125	255.4
35.00	276/0.40	0.554	1.20	10.30	154	345.6
50.00	396/0.40	0.386	1.40	12.20	191	490.5

• * At 40°C ambient temperature.

Svarn^{*}





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