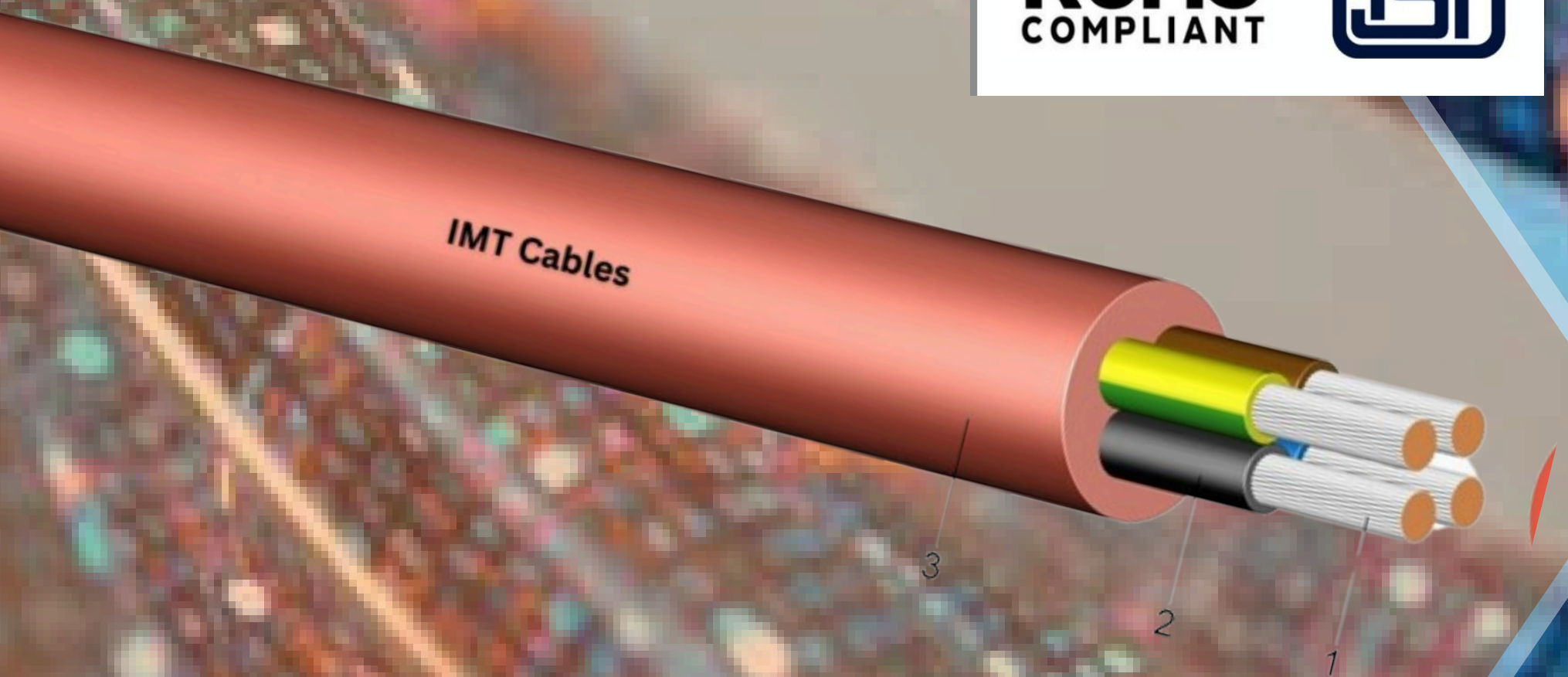
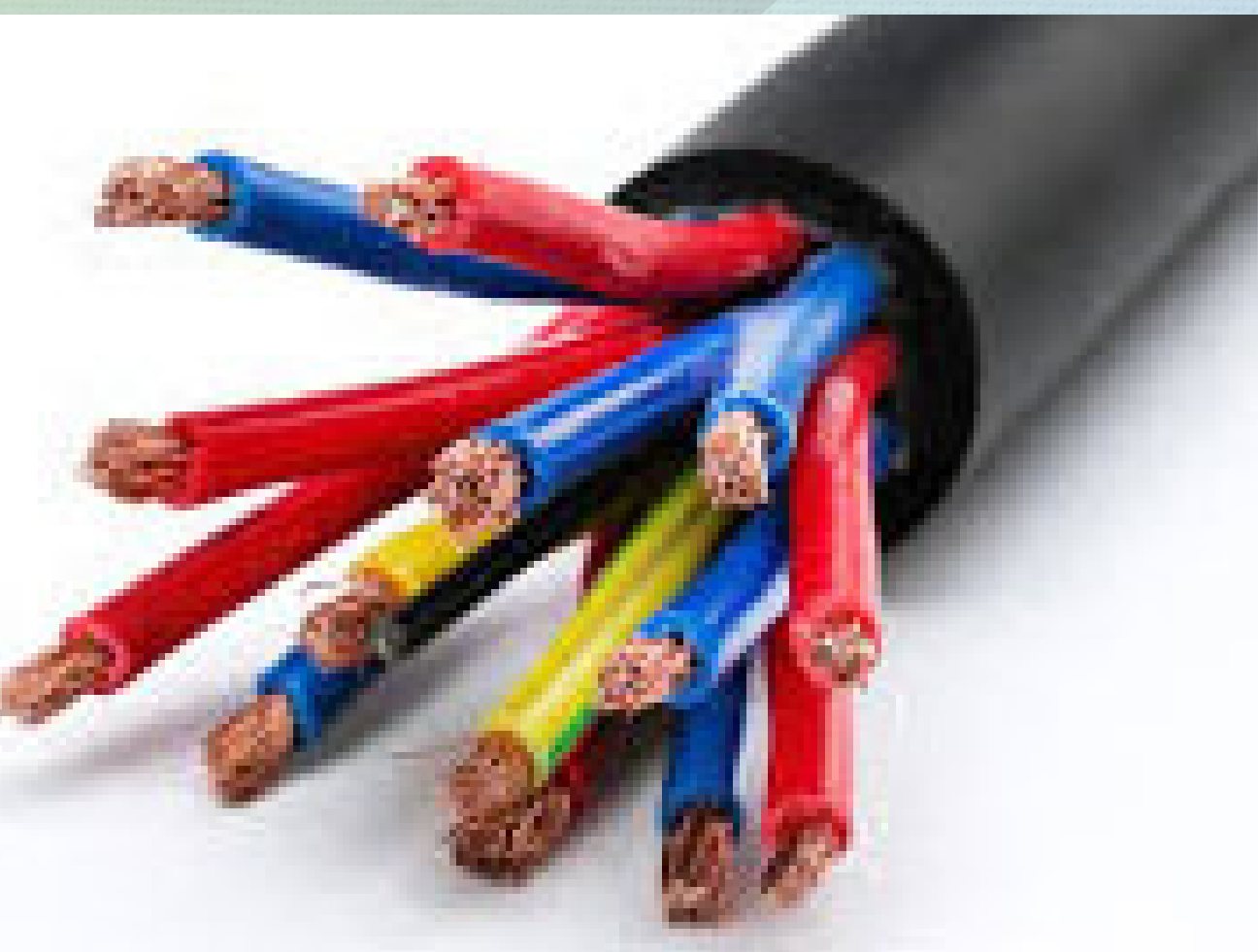




IMT CABLES PVT.LTD.

SILICONE CABLES





About us

**The flag bearer Company of RAS GROUP ,
IMT CABLES PVT. LTD is one the Leading
manufacturers of all types of elastomeric
(Rubber) Cables, Welding Cables, Trailing &
Composite Cables, Rubber Hoses etc.**

Our products bear ISI mark of quality.

**Additionally we are capable to manufacture
cables as per client specifications & different
international standard such as British
Standard, ASTM, VDE, IEC DIN etc.**



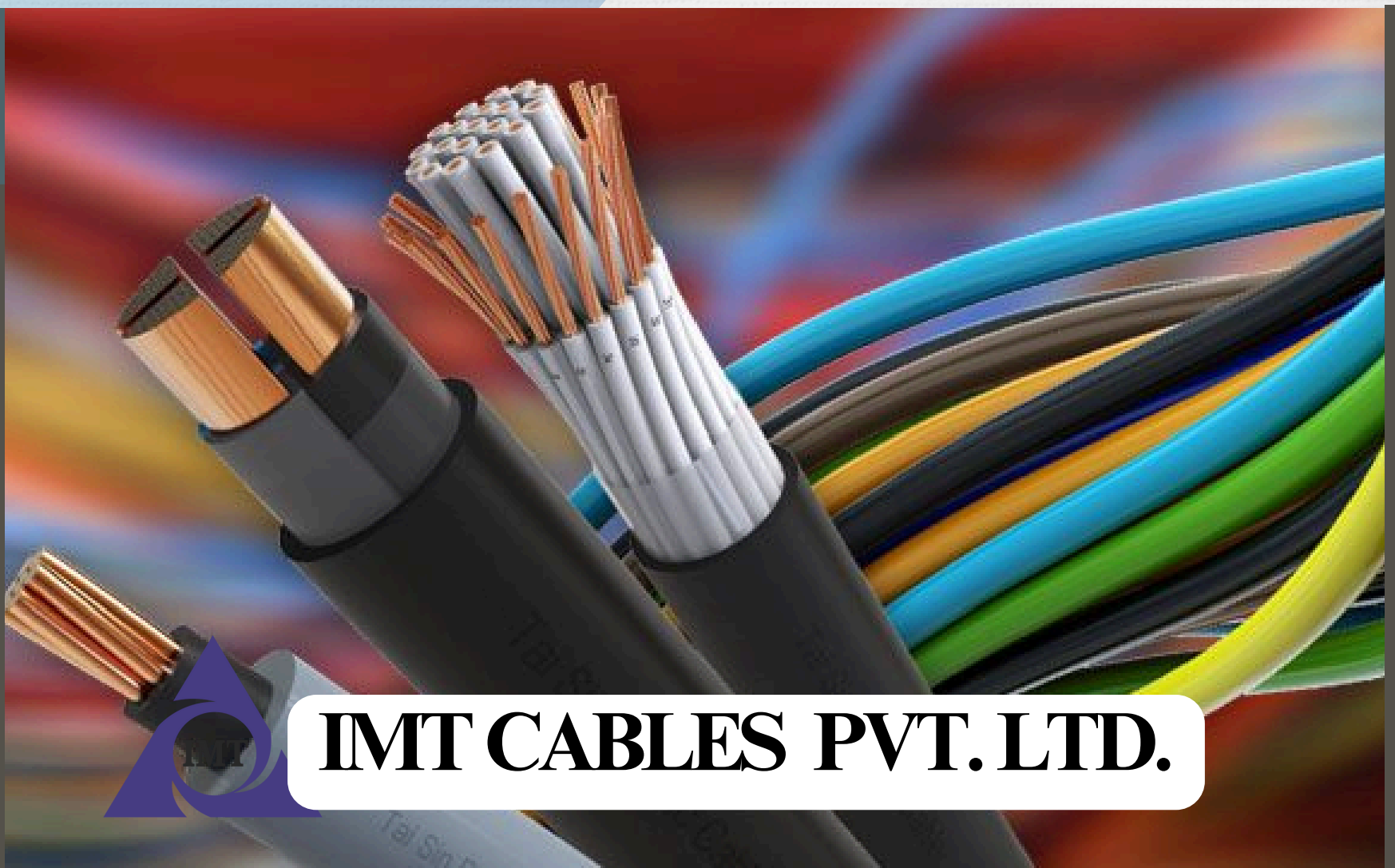
IMT CABLES PVT. LTD.

ABOUT OUR SILICONE CABLES

IMT cables are best known for Silicone insulated cables. Silicone cables are used in high temperature (upto 350° C) range and are heat resistant.

Silicone cables are very flexible in nature and are used wherever maximum flexibility is required. The soft nature of silicon insulation is duly protected by customized FIBRE GLASS BRAIDING with high class VARNISH Coating and/or any other Elastomer sheathing.

Silicone cables with/without FIBRE GLASS BRAIDING widely used in Steel Plants/ Mining Industries /Textile Industries. These cables are manufactured by IMT Cables as per BIS 9968/Part-I are a guarantee for quality product.



IMT CABLES PVT. LTD.

ABOUT OUR SILICONE CABLE RANGE

BHEL

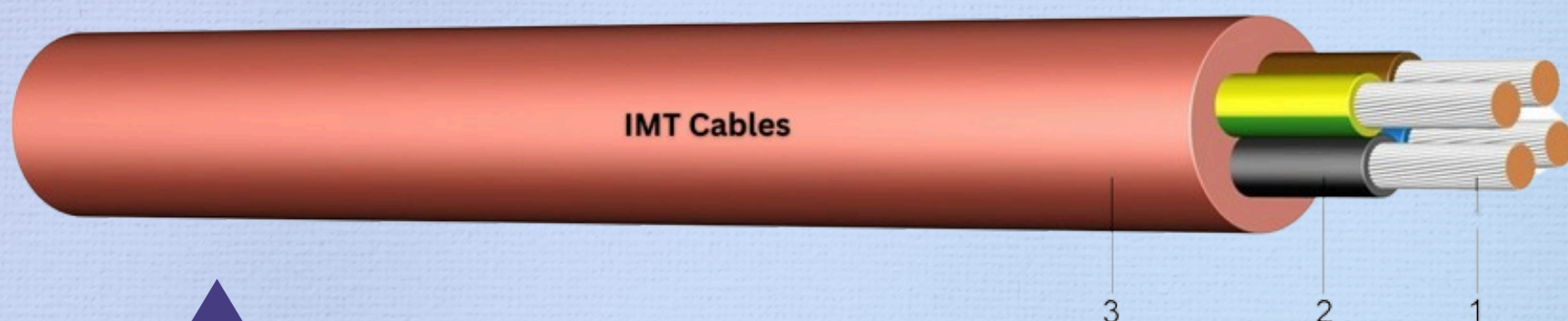
BP 28569 REV. 12

3.3 KV Grade, Polyurethane Varnished Polyester Yarn Braided Heat Resistant Silicone Rubber Insulated Single Core. Copper Cable to SPCN.No. BP28569 Rev.12.

6.6 KV Grade, Polyurethane Varnished Polyester Yarn Braided Heat Resistant Silicone Rubber Insulated Single Core. Copper Cable to SPCN.No. BP28569 Rev.12.

11 KV Grade, Polyurethane Varnished Polyester Yarn Braided Heat Resistant Silicone Rubber Insulated Single Core. Copper Cable to SPCN.No. Bp28569 Rev.12.

1.1 KV Grade Cable, Unarmoured, Is: 9968 Part-1 Latest, Annealed Tinned Copper, Silicone Rubber, Glass Yarn/Fibre Braided, Single/Multi Cores and Varnished.



IMT CABLES PVT. LTD.

TECHNICALS

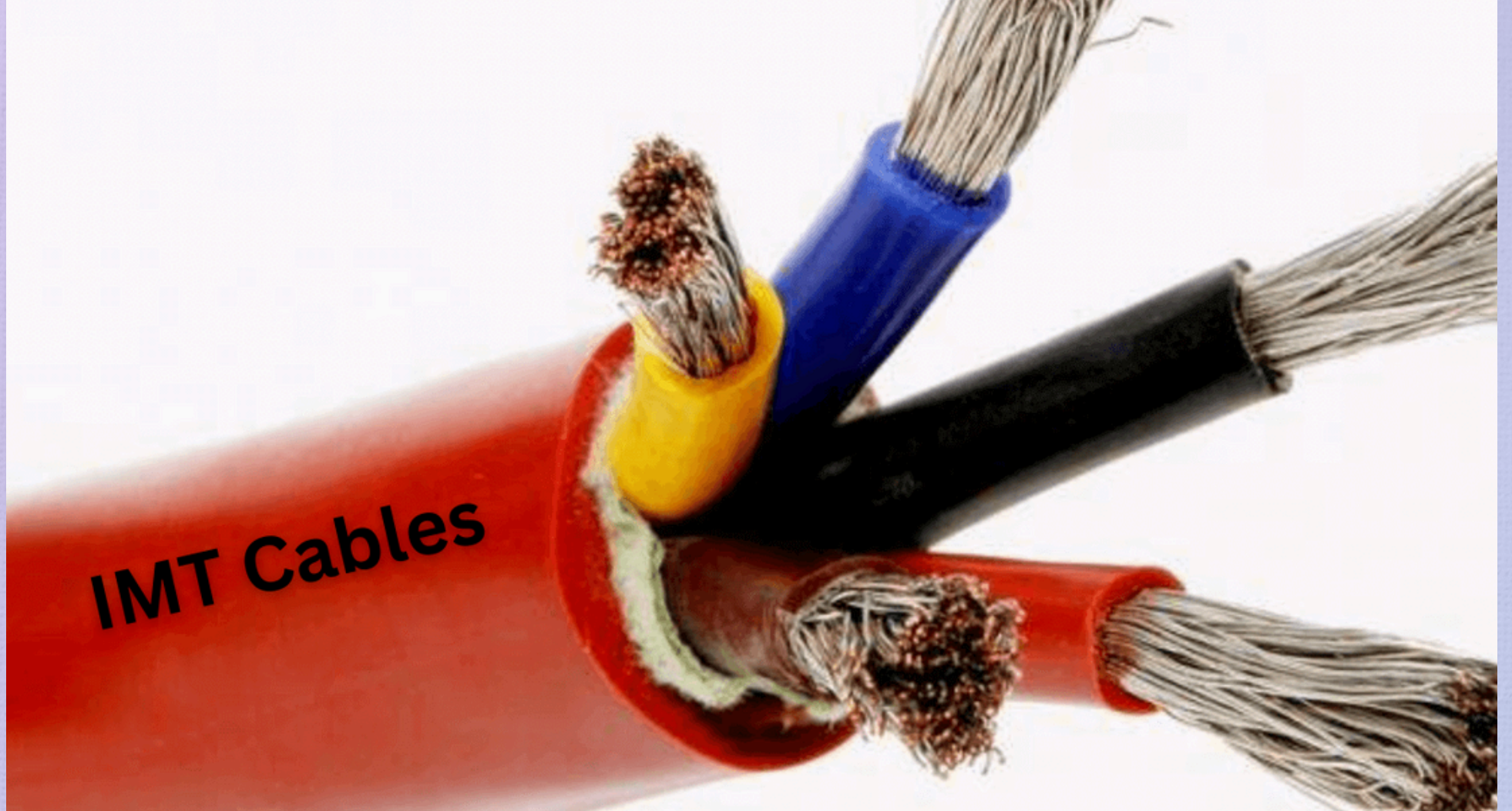
Cross Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of Sheath				Maximum Overall Diameter				Maximum Resistance of Conductor at 20° c	
		Single Core	Twin Core	Three Core	Four Core	Single Core	Twin Core	Three Core	Four Core	Plain Wires ohm/Km	Tinned Wires ohm/Km
mm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	ohm/Km	ohm/Km
0.5	1.0	1.0	1.0	1.0	1.0	7.0	11.7	12.5	13.6	39.0	40.1
0.8	1.0	1.0	1.0	1.0	1.0	7.2	12.2	13.0	14.3	26.0	26.7
1.0	1.0	1.0	1.0	1.0	1.0	7.4	12.6	13.4	14.8	19.5	20
1.5	1.0	1.0	1.0	1.1	1.1	7.7	13.2	14.2	15.5	13.3	13.7
2.5	1.0	1.0	1.1	1.1	1.1	8.2	14.2	15.4	16.5	7.98	8.21
4.0	1.0	1.0	1.2	1.2	1.2	8.8	15.7	16.7	18.3	4.95	5.09

Cross Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of Sheath					Maximum Resistance Of Conductor At 20° c	
		Single Core	Twin Core	Three Core	Four Core	Five Core	Plain Wires ohm/Km	Tinned Wires ohm/Km
mm ²	mm	mm	mm	mm	mm	mm	ohm/Km	ohm/Km
6	1.00	1.6	2.00	2.1	2.5	2.5	3.3	3.39
10	1.2	1.8	2.4	2.5	2.7	2.9	1.91	1.95
16	1.2	1.9	2.5	2.7	2.9	3.2	1.2	1.24
25	1.4	2.00	3.2	3.6	3.4	--	0.78	0.795
35	1.4	2.2	3.3	3.4	3.5	--	0.554	0.565
50	1.6	2.4	3.5	3.6	3.7	--	0.386	0.393
70	1.6	2.6	3.6	3.7	3.9	--	0.272	0.277
95	1.8	2.8	3.8	4.00	4.1	--	0.206	0.21
120	1.8	3.00	4.00	4.1	4.3	--	0.161	0.164
150	2	3.2	4.2	4.3	4.5	--	0.129	0.132
185	2.2	3.4	4.3	4.5	4.8	--	0.106	0.108
240	2.4	3.5	4.6	4.8	5.1	--	0.0801	0.0817
300	2.6	3.5	4.9	5.1	5.4	--	0.0641	0.0654
400	2.8	3.8	5.2	5.4	5.8	--	0.0486	0.0495
500	3.00	4.00	--	-	--	--	0.0384	0.0391
630	3.00	4.1	--	--	--	--	0.0287	0.0292

Comparison of Insulation & Sheath Compounds For Different Working Temperature

Material	Maximum Rated Operating Temperature of Conductor in Deg. C	minimum Ambient Temperature in Deg. C	Maximum Conductor Temperature During Short Circuit in Deg. C
Natural Rubber	60	-55	200
Ethylene Propylene Rubber (EPR)	90	-50	250
Polychloroprene	90	-40	250
Nitrile Rubber PVC Blend (NBR-PVC)	90	-30	250
Chlorosulphonated Polyethylene	90	-35	250
Silicon Rubber	150	-55	350





Short Circuit Current Rating Of Flexible With Copper Conductors (Kilo Amps)

Nominal Area of Conductor	Silicone/ CSP Cables	Silicone/ G.F. Braided & Lacquered Cables
1.5	0.251	0.22
2.5	0.418	0.367
4	0.668	0.587
6	1	0.881
10	1.67	1.47
13	2.67	2.35
25	4.18	3.67
35	5.82	5.14
50	8.36	7.34
70	11.7	10.27
95	15.87	13.94
120	20.05	17.61
150	25.07	22.02
182	30.91	27.15
240	40.1	35.22
300	50.13	44.03
400	66.84	58.71
500	83.55	72.39
630	105.27	92.47



IMT CABLES PVT. LTD.

Usage of Silicone Cables

Silicone cables are versatile and widely used in various applications due to their unique properties and we are best known for Silicone insulated cables with our wide range of Silicone Cables . Here are some common uses of Our Silicone Cables :


1. **High-Temperature Environments:** Silicone cables can withstand high temperatures (often up to 350°C or more), making them suitable for applications like ovens, furnaces, and industrial machinery.
2. **Automotive Applications:** They are used in automotive wiring systems where they need to endure high temperatures and resist chemicals and oils. For example, they can be found in ignition systems and sensor connections.
3. **Medical Equipment:** In medical devices, silicone cables are valued for their flexibility, biocompatibility, and ability to withstand sterilization processes. For example, Electrocardiogram (ECG) Machines, Infusion Pumps etc.
4. **Consumer Electronics:** Silicone cables are used in gadgets and appliances where flexibility and durability are required, such as in wearable technology and high-performance audio equipment.
5. **Renewable Energy:** In solar power systems and other renewable energy applications, silicone cables are used due to their durability and resistance to environmental factors. For example solar panels, wind turbines
6. **Marine and Underwater:** Their resistance to moisture, UV light, and saltwater makes them suitable for marine and underwater applications.
7. **Flexible Connectors:** Silicone cables are often used in applications requiring flexible and durable connectors, such as robotics and automation systems.
8. **High-Flex Applications:** They are used in situations where cables are subject to frequent movement or bending, like in machinery or robotics.




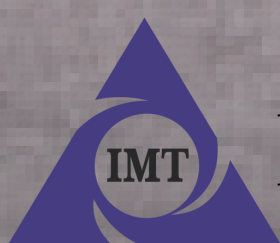
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