



(TRAILING) TRS (RUBBER) CABLES

IS : 9968 (P-1)88

The word POLYMERS comes from the Greek meaning "MANY + PARTS" and as chemical compound. It is combination of carbon, hydrogen, oxygen, and / or Silicon.

Due to its Physical, Chemical and electrical Characteristic polymers today has turned out to be the only suitable material for application in critical and problem areas. Some polymers conduct electricity very well.

Xtra-Cab Cables Manufactures a wide range of Elastomeric Cables, Elevator (Lift) Cables as per IS: 9968 (Pt-1) specification and are approved / tested by NSIC, RTC, ISI & NTH.

For quality systems SONIA CABLE INDUSTRIES. has acquired ISO 9001 certification. Elastomer Cables are used in Steel, Chemicals, Cement Plants, Sugar Factories, Aeronautic Ship, Coal Fields & Oil Refineries, Boilers, Electric Furnace, Driers, Bakeries, High Frequency Generators, Cranes, Machineries, Alloys, Machine Tools, Construction Equipments, Textile Machinery, Printing Press etc.

For cables which can withstand the harsh aging condition during operations and also to ensure current rating at constant ambient temperature.

Specification : Loco • Ship • Aeronautical Cables as per IEC 92-3, DGS - 211, 212, NVS, DNV, DLW, C/W, RDSO, LLOYDS International Specification.

Types of Rubber Cables : VIR / TRS, E.P. R. / CSPE, P. R. / PCP, Neoprene, H.O.F.R., Silicone, Butyl Rubber Cables.

**For Selection of right type of Elastomeric Cables,
the characteristics are mentioned below :**

TYPE OF INSULATION	Maximum Rated Operating Temperature of Conductor in Deg. C	Minimum Ambient Temperature in Deg. C	Maximum Conductor Temperature During Short Circuit in Deg. C
General Purpose	60	-55	200
Butyl	85	-50	220
Ethylene Propylene Rubber (EPR)	90	-50	250
Polychloroprene (PCP)	90	-50	250
Nitrile Rubber PVC Blend (NBR-PVC)	90	-30	250
Chlorosulphonated Polyethylene (CP)	90	-35	250
Silicone Rubber	150	-55	350

The short circuit temperature mentioned above are based on Intrinsic properties of the insulating material, it is essential that the accessories which are used in the above system with mechanical and soldered connections are suitable for temperature adopted for cables.



Sr. No.	Type	Identification	Voltage Grade	Application
1.	Flexible Trailing Cables	FT	1.1 KV portable m/c	Coal cutlers and similar
2.	Flexible Trailing Cables	FTD	1.1 KV	Hand held m/c like drill etc.
3.	Pliable Armoured Flexible Cables	P3	1.1 KV	Conveyors, Loaders and similar transportable m/c
4.	Pliable Armoured Flexible Cables	PC	1.1 KV	Remote Control Circuit
5.	Pliable Armoured Flexible Cables	PL	1.1 KV	For Coal Face Light
1.	FT a) FT3-5 Core b) FT4-5 Core c) F16-5 Core	5 Core around a cradle separator 3 Power cores with protective screen one unscreened plot clad around bare central conductor. 3 Power Core with protective screen with plot core laid around an elastomeric centre. Cross section range : 16 to 95 sq. mm.		
2.	FTD a) FTD-3 Core	3 Power Core + pilot core + each core all 6 sq. mm. laid around cradle separator.		
3.	P a) P3-5 Core	3 Power Core + pilot core + each core around cradle separator cross section 6 to 35 sq. mm.		
4.	PC a) PC1-2 Core cross section 2.5 sq. mm. - 4 sq. mm. b) PC2-3 Core cross section 2.5 sq. mm. - 4 sq. mm.			
5.	PL a) PL1-4 Core cross section 4 sq. mm. b) PL2-5 Core cross section 4 sq. mm.			