General Construction (Conforming to IS 9968 Part 1):

Conductor:	*Annealed tinned Copper wires Solid (Class 1), Stranded (Class 2), flexible (Class 5)complying with the requirement of IS 8130-1984*
Separator Tape:	*Suitable material separator tape may be applied over the conductor*
Insulation:	*General service elastomer compound Type IE1 of IS 6380-1984* *Heat Resisting elastomer compound Type IE2 of IS 6380-1984* *Silicone Rubber Type IE 5 of IS 6380-1984*
Core Identification:	*Colored insulation, Nos.PE tape, Colored proofed tape, Nos. printing*
Fillers:	*Natural or synthetic fibers or elastomer suitable for the operating temperature and compatible with the insulating material*
Sheath:	*General service sheath Type SE1/SE2 of IS 6380-1984* *Heavy Duty Sheath Type SE3/SE4 of IS 6380-1984*

Working Temperature of Commonly used Elastomeric Insulating and Sheathing Materials:

Material	***Max. Cond. Temp. for continuous operation Deg C.***	***Max. Cond. Temp. for short circuit Deg C.***	***Min. Working Temp. Deg C.***
Natural Rubber (VIR & TRS)	*60*	*200*	*-55*
Ethylene Propylene Rubber (EPR)	*90*	*250*	*-50*
Polychloroprene (PCP)	*70*	*200*	*-40*
Chlorosupphonated Polyethylene (CSP)	*90*	*200*	*-35*
Silicone Rubber	*150 / 180*	*350*	*-55*
HR Natural Rubber (HR VIR)	*75*	*200*	*-55*
Styrene Butadience Rubber	*60*	*200*	*-55*
Butyl Rubber	*85*	*220*	*50*

SUN ELECTRICALS (KEI Wires & Cables)

Rubber Cables:

ELASTOMERIC CABLES RANGE	***APPLICATION***
CABLES UP TO 11KV	***Machine Trailing, Mining, Power***
FLEXIBLE TRAILING CABLES	*Reeling unreeling, Trailing, Festooning, Mobile Machines, Cranes, Coal Handling and Conveyors*
MINING CABLES	*FT or Pliable Armoured or Landline type* *As per IS 14494, NCB specs* *for UG , Open cast, Coal or other mines and mining machines*
THERMAL POWER PLANTS	*For coal handling plants, flexible power and control application*
CABLES FOR STEEL PLANTS	*Flexible and high temp withstanding cables for furnace, melting shops, material handling*
WIND ENERGY	*Flexible cables for power and control for Wind Mill generator connection*
FIRE SURVIVAL CABLES	*Fire Survival for 3 Hrs or 20 Min*
SHIP WIRING	*As per IEC specs and Naval specs DGS or DEFSTAN, NES*
OFFSHORE and ONSHORE	*For Platforms and Rigs as per IEC and BS or NEK specs*
SHORE SUPPLY AND GENERATOR CABLES	*For charging of ship batteries and supply from mobile generators*
MOTOR COIL LEADS	*Elastomeric and Silicon as per IS, BS, or OEM specs*
HIGH TEMP CABLES	*Silicon insulated, glass fiber braided or unbraided*
PUMP CABLES	*For Water , submersible and sewerage pumps*
CABLES FOR RAILWAYS	*Coach wiring, Metro railway*
WIRES FIRE	*HFFR Low toxic emission under*
PANEL WIRING	*For flexible, high power high temp zone, polluted or moist atmospheres*
BATTERY CABLES	*For High current and long life*

SUN ELECTRICALS (KEI Wires & Cables)

LOW TEMPERATURE INSTALLATIONS	*Suitable for subzero temp. installations and operations*
MISC. APPLICATIONS	*Outdoor High mast lighting, Site power supply, White goods, Oil or Chemical resistant*
TYPES	*Power and Control cables up to 61 Cores Instrumentation Pairs 30 pairs, triads, quad Wires, Flat cables*
VOLTAGE GRADES	*11KV, 6.6KV, 3.3KV, 1.1KV, 750V, 250V, 110V, 60V*
CONDUCTOR RANGE	*0.5 to 630 Sq.mm*
POLYMERS PROCESSED	*EPR, EPDM, PCP, CSP, CPE, SILICON, EVA HALOGENFREE AND FIRE RESISTANT COMPOUNDS NON TOXIC COMPOUNDS*
BRAIDING OFFERED	*ATC, GI wire braid, Synthetic or Textile yarn, Glass Fiber*
ARMOURING	*Pliable armour or steel /copper wires/Stainless steel wires*

SUN ELECTRICALS (KEI Wires & Cables)