



Instrumentation cables CONDUCTOR

Annealed bare/ uniform coated with Tinned/Silver Platted, High Conductivity, and Electrolytic Grade Solid/Stranded/Flexible Conductor.

DIELECTRIC

Conductor are insulated with General Purpose/HR PVC Compound/Solid/Cellular PE/PP/or any other dielectric material as per customers specification.

COLOUR OF DIELECTRIC :-

Cores are identified with different type of color scheme as per requirement as below:-

- i) As per IS:1554[Pt-I]:88, 694:90.
- ii) As Per IEC, ITD or number Printing.
- iii) As Per Customers Scheme.

PAIR/TRIAD/QUAD :-

Two/Three/Four cores are uniformly twisted together to form a Pair/Triad/Quad with maximum lay length 80 mm/as per requirement of customer. The lay shall be so chosen as to minimize cross talk in the cable.

INDIVIDUAL SHIELDING :-

If required, Individual Shielding may be of Poly Aluminum [Thin Layer of Aluminum Foil bonded to Polyester Film] Tape with Annealed Tinned Copper Drain Wire. It prevents the shorting of adjacent shield and minimizes the cross talk and ground loops. A Tinned Copper drain Wire is installed to provide continuous contact with the shield and allow to connection to ground. Tinning the drain wire reduces galvanic corrosion between drain and shield.

LAYING OF PAIRS/TRIAD/QUAD. :-

Pair/Triad/Quad are laid up with suitable lay. The outer most layers are right hand lay and successive layers are laid up with opposite lay. Then, a Melinex Tape is provided to bind up laid up Pair/Triad/Quad.

OVERALL SHIELDING :-

If required, Overall I Shielding may be of Annealed Tinned Copper Braiding/Poly Aluminum [Thin Layer of Aluminum Foil bonded to Polyester Film] Tape with Annealed Tinned Copper Drain Wire. Braiding ATC Shield has high tensile Strength and provides better coverage in flexing application. They are easier to terminate. This provides effective shielding; cross talk and noise are kept to an absolute minimum.

INNER SHEATH :-

The laid up pair/triad/quad after shielding are provided with an inner sheath, which may be either Extruded Inner Sheath or wrap with PVC Tape.

ARMOURING :-

It is applied over inner Sheath. It may consist of galvanized Round Steel wires or galvanized Flat Steel Strips.

OUTER SHEATH :-

It is applied over Armouring in case of Armoured Cable or over Inner Sheath in case of Unarmoured Cable. The Color of Sheath is Black or Grey. The Sheath material may be General Purpose/HR/FRLS PVC Compound as per requirement of specification.

RIP CORD :-

To simplify jacket removal, high tensile strength nylon Rip Cord is provided over laid up of pairs/triads/quads below the outer sheath in case of Unarmoured cable or below the Inner Sheath in case of armoured Cable.

QUALITY ASSURANCE :-

Quality Standards are built in every pagoda product. Relemac India cables are subjected to a series of required tests in our well-equipped laboratory. Besides the rigid tests and checks at every stage from raw material through manufacturing stages and finally up to the finished product.

TYPICAL APPLICATION :-

For Connection of Instruments, Process Control Systems, Computers, Data Transmission etc.