

# PE-PVC INDOOR CABLE

POLYETHYLENE INSULATED POLYVINYL CHLORIDE SHEATHED INDOOR CABLES

## Product Description:

### Conductor:

- Solid annealed copper wire in size 0.4mm and 0.5mm

### Insulation:

- Color Code Polyethylene

### Quadding:

- Four insulated conductors are twisted into a quad

### Cable Formation:

- 200 pairs or less:

Five quads shall be assembled into a 10 pair sub-unit, and bound with polyester color tape.

All the sub-units are assembled into a compact and circular cable cores in accord to specification.

- 300 pairs or more:

Five 10 pairs sub-unit shall be assembled into a 50 pair unit, and bound with polyester color tape.

All the units are assembled into a compact and circular cable cores in accord to specification.

### Cable Core Wrapping:

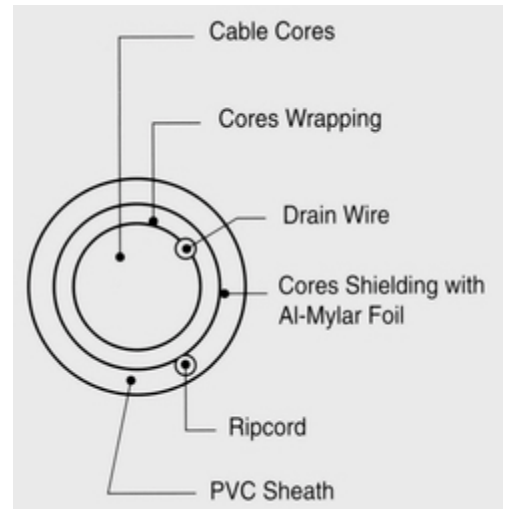
- A non-hygroscopic tape

### Cable Core Shielding:

- Polyester coated a aluminum tape.

### Cable Sheath:

- Polyvinyl chloride compound..



## ELECTRICAL CHARACTERISTIC AT 20°C

| Item   | Conductor diameter (mm) |                         |      |      |      |
|--|-------------------------|-------------------------|------|------|------|
|  | 0.4                     | 0.5                     | 0.65 | 0.9  |      |
| Conductor Resistance<br>( $\Omega$ /Km)        | nominal value           | 139.0                   | 88.7 | 52.5 | 27.4 |
|  | Maximum value           | 147.5                   | 93.5 | 56.5 | 29.0 |
| Min. Insulation Resistance<br>(M $\Omega$ /Km) |                         | 5000                    |      |      |      |
| Mutual capacitance<br>(1KHz) nF/Km             | 50 pairs or more        | Average value: 55 (Max) |      |      |      |
|  | 30 pairs or less        | Average value: 60 (Max) |      |      |      |
| Dielectric Strength<br>(V/min)                 | cond. to earth          | AC 350/1 or DC 500/1    |      |      |      |

## Cable Dimension

| Conductor Diameter | Number Of Pairs | Insulation Thickness | LAP sheath Thickness | Overall Diameter (Approx.) | Approx. Weight | Standard Length |
|--------------------|-----------------|----------------------|----------------------|----------------------------|----------------|-----------------|
| mm                 | P               | mm                   | mm                   | mm                         | kg/km          | m               |
| 0.4                | 6               | 0.13                 | 1.3                  | 7                          | 52             | 500             |
|                    | 10              | 0.13                 | 1.3                  | 8                          | 69             | 500             |
|                    | 20              | 0.13                 | 1.3                  | 9                          | 109            | 500             |
|                    | 30              | 0.13                 | 1.3                  | 10                         | 143            | 500             |
|                    | 50              | 0.13                 | 1.4                  | 13                         | 218            | 500             |
|                    | 100             | 0.13                 | 1.6                  | 17                         | 397            | 500             |
|                    | 200             | 0.13                 | 1.9                  | 22                         | 746            | 500             |
|                    | 300             | 0.13                 | 2.0                  | 27                         | 1076           | 500             |
|                    | 400             | 0.13                 | 2.3                  | 31                         | 1427           | 500             |
|                    | 600             | 0.13                 | 2.4                  | 36                         | 2061           | 500             |
| 0.5                | 6               | 0.15                 | 1.3                  | 8                          | 67             | 500             |
|                    | 10              | 0.15                 | 1.3                  | 9                          | 90             | 500             |
|                    | 20              | 0.15                 | 1.3                  | 10                         | 146            | 500             |
|                    | 30              | 0.15                 | 1.3                  | 12                         | 198            | 500             |
|                    | 50              | 0.15                 | 1.4                  | 15                         | 309            | 500             |
|                    | 100             | 0.15                 | 1.6                  | 20                         | 565            | 500             |
|                    | 200             | 0.15                 | 2.0                  | 26                         | 1087           | 500             |
|                    | 300             | 0.15                 | 2.1                  | 31                         | 1577           | 500             |
|                    | 400             | 0.15                 | 2.4                  | 36                         | 2092           | 500             |
|                    | 600             | 0.15                 | 2.5                  | 43                         | 3044           | 500             |

## Cable Cores Construction

