



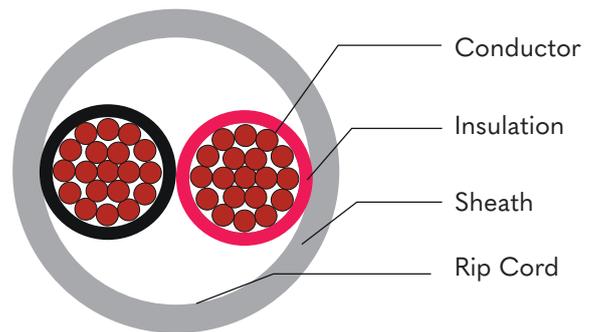
## APPLICATION

Unshielded Multi-Conductor cable suitable for Audio, Control, Instrumentation and Building Management Systems (BMS).

## DESIGN

Conductor: N x Bare Copper Wire, 18 AWG Flexible  
 Insulation: Polyolefin  
 Core 1: Black, Core 2: Red, Core 3: White, Core 4: Green, Core 5: Brown, Core 6: Blue, Core 7: Orange, Core 8: Yellow, Core 9: Purple, Core 10: Grey, Core 11: Pink, Core 12: Tan (Black colour with number identification on cores more than 12)  
 Rip Cord: Nylon Yarn  
 Sheath: Flame-Retardant Polyvinyl Chloride (PVC)  
 Standard colour: Grey, RAL Code: 7046  
 Standard Put-up Length: 305 Meters

## Cross Section Drawing



## Physical Characteristics

| Part Number                           | VC218P     | VC318P | VC418P | VC618P | VC818P |
|---------------------------------------|------------|--------|--------|--------|--------|
| No of Cores                           | 2          | 3      | 4      | 6      | 8      |
| Conductor Construction (AWG)          | 18 (7 x26) |        |        |        |        |
| Nom. Diameter Conductor (mm)          | 1.2        |        |        |        |        |
| Nom. Radial Thickness Insulation (mm) | 0.2        |        |        |        |        |
| Nom. Radial Thickness Sheath (mm)     | 0.4        |        |        |        |        |
| Nom. Overall Diameter (mm)            | 3.9        | 4.1    | 4.55   | 5.7    | 5.9    |
| Operating Temperature (°C)            | -25 / +75  |        |        |        |        |
| Max. Recommended Pulling Tension (N)  | 200        | 299    | 399    | 600    | 797    |
| Min. Bend Radius (Install) (mm)       | 40         | 42     | 46     | 58     | 60     |
| Nominal Cable Weight (kg/km)          | 27.3       | 36.9   | 47.2   | 68.2   | 87     |

## Electrical Characteristics

| Part Number                               | VC218P | VC318P | VC418P | VC618P | VC818P |
|---|--------|--------|--------|--------|--------|
| No of Cores                               | 2      | 3      | 4      | 6      | 8      |
| Max. DC Resistance Conductor (Ω/km)       | 22.7   |        |        |        |        |
| Capacitance conductor to conductor (pF/m) | 52     | 55     | 45     | 50     | 50     |
| Nominal Inductance (μH/m)                 | 0.5    |        |        |        |        |
| Max. Recommended Current at 25°C (Amps)   | 5      | 5      | 4      | 3.5    | 3.5    |
| Max. Operating Voltage (Vrms)             | 300    |        |        |        |        |

## Reference & Standards

(BS) EN 50290-2

IEC 60228

IEC 60332-1-2 & IEC 60332-1-3

RoHS directives

## Ordering Information

| Part Number | Description  |
|-------------|--|
| VC218P      | 2 Core, 18 AWG unshielded Multi Conductor Cable, PVC 305M / Roll |
| VC318P      | 3 Core, 18 AWG unshielded Multi Conductor Cable, PVC 305M / Roll |
| VC418P      | 4 Core, 18 AWG unshielded Multi Conductor Cable, PVC 305M / Roll |
| VC618P      | 6 Core, 18 AWG unshielded Multi Conductor Cable, PVC 305M / Roll |
| VC818P      | 8 Core, 18 AWG unshielded Multi Conductor Cable, PVC 305M / Roll |