



## APPLICATION

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

## DESIGN

Conductor: N x Bare Copper Wire, 16 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

Drain Wire: 24 AWG (7 x 32), Tinned Copper

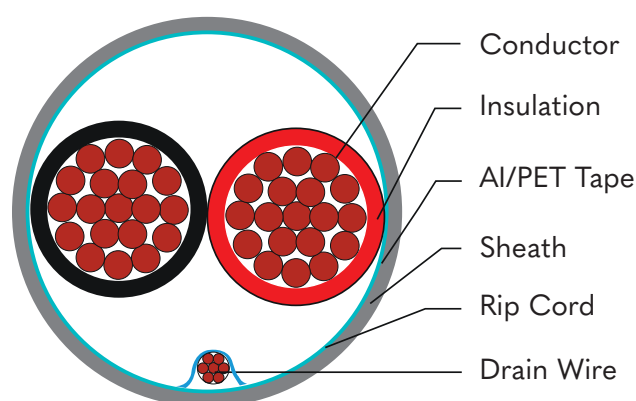
Screen: Aluminium / Polyester 100% Coverage

Rip Cord: Nylon Yarn

Sheath: Flame - Retardant Polyvinyl Chloride (PVC)  
Standard colour: Grey

Standard Put-up Length: 305 Meters

## Cross Section Drawing



## Physical Characteristics

| Part Number                           | VSC216P   | VSC316P | VSC416P | VSC616P | VSC816P |
|---------------------------------------|-----------|---------|---------|---------|---------|
| No of Cores x 16 AWG (19 x 29)        | 2         | 3       | 4       | 6       | 8       |
| Nom. Diameter Conductor (mm)          | 1.4       |         |         |         |         |
| Nom. Radial Thickness Insulation (mm) | 0.2       |         |         |         |         |
| Nom. Radial Thickness Sheath (mm)     | 0.4       | 0.4     | 0.4     | 0.4     | 0.4     |
| Nom. Overall Diameter (mm)            | 4.6       | 4.9     | 5.3     | 6.8     | 7.6     |
| Operating Temperature (°C)            | -25 / +75 |         |         |         |         |
| Max. Recommended Pulling Tension (N)  | 262       | 391     | 520     | 780     | 1040    |
| Min. Bend Radius (Install) (mm)       | 50        | 53      | 57      | 72      | 80      |
| Nominal Cable Weight (kg/km)          | 34        | 46      | 58      | 84      | 11.5    |

## Electrical Characteristics

| Part Number   | VSC216P | VSC316P | VSC416P | VSC616P | VSC816P |
|---|---------|---------|---------|---------|---------|
| No of Cores x 16 AWG (19 x 29)                      | 2       | 3       | 4       | 6       | 8       |
| Max. DC Resistance Conductor ( $\Omega/\text{km}$ ) | 15.47   |         |         |         |         |
| Max. DC Resistance Screen ( $\Omega/\text{km}$ )    | 78.5    |         |         |         |         |
| Capacitance conductor to conductor (pF/m)           | 105     | 105     | 90      | 80      | 80      |
| Capacitance cond. to other cond.+ Screen (pF/m)     | 185     | 190     | 185     | 160     | 150     |
| Nominal Inductance (l)                              | 0.5     |         |         |         |         |
| Max. Recommended Current at 25°C (Amps)             | 6.25    | 6.25    | 5       | 4.35    | 4.35    |
| Max. Operating Voltage (Vrms)                       | 300     |         |         |         |         |

## Reference Standards

|                 |                 |
|-----------------|-----------------|
| (BS) EN 50290-2 | IEC 60332-1     |
| UL 1581         | RoHS directives |
| IEC 60228       |                 |

## Ordering Information

| Part Number | Description  |
|-------------|--|
| VSC216P     | 2 Core, 16 AWG Shielded Multi Conductor cable, PVC 305M / Roll |
| VSC316P     | 3 Core, 16 AWG Shielded Multi Conductor cable, PVC 305M / Roll |
| VSC416P     | 4 Core, 16 AWG Shielded Multi Conductor cable, PVC 305M / Roll |
| VSC616P     | 6 Core, 16 AWG Shielded Multi Conductor cable, PVC 305M / Roll |
| VSC816P     | 8 Core, 16 AWG Shielded Multi Conductor cable, PVC 305M / Roll |