



## APPLICATION

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

## DESIGN

Conductor: N x Bare Copper Wire, 18 AWG Flexible

Insulation: Polyolefin

Core Colors: 1: Black, 2: White, 3: Red, 4: Green,  
5: Brown, 6: Blue, 7: Orange, 8: Yellow  
9: Purple, 10: Grey, 11: Pink, 12: Tan

Drain Wire: Tinned Copper Wire

Rip Cord: Nylon Yarn

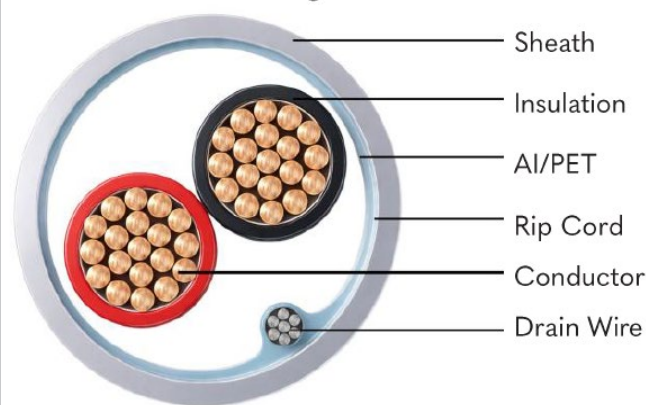
Screen: Aluminium/Polyester 100% Coverage

Sheath Material : Flame-Retardant Polyvinyl Chloride  
(PVC)

Standard colour: Grey, RAL Code: 7046

Standard Put-up Length: 305 Meters

Cross Section Drawing



## PHYSICAL CHARACTERISTICS

| Part Number                           | VSC218P         | VSC318P | VSC418P | VSC618P | VSC818P | VSC1018P | VSC1218P |
|---------------------------------------|-----------------|---------|---------|---------|---------|----------|----------|
| No. of Cores x 18AWG (7 x 26)         | 2               | 3       | 4       | 6       | 8       | 10       | 12       |
| Nom. Diameter Conductor               | 1.4             |         |         |         |         |          |          |
| Nom. Radial Thickness Insulation (mm) | 0.2             |         |         |         |         |          |          |
| Nom. Radial Thickness Sheath (mm)     | 0.4             |         |         |         |         | 0.5      |          |
| Nom. Drain Wire Diameter (mm)         | 24 AWG (7 * 32) |         |         |         |         |          |          |
| Nom. Overall Diameter (mm)            | 4.0             | 4.2     | 4.6     | 5.75    | 6.4     | 7.5      | 7.8      |
| Operating Temperature Range (°C)      | -25 to +75      |         |         |         |         |          |          |
| Max. Recommended Pulling Tension (N)  | 200             | 299     | 399     | 600     | 797     | 999      | 1200     |
| Min. Bend Radius (Install) (mm)       | 40              | 42      | 46      | 58      | 64      | 75       | 78       |
| Nominal Cable Weight (kg/km)          | 29.6            | 39.2    | 49.4    | 70.9    | 89.5    | 104      | 129      |

## ELECTRICAL CHARACTERISTICS

| Part Number                                    | VSC218P | VSC318P | VSC418P | VSC618P | VSC818P | VSC1018P | VSC1218P |
|------------------------------------------------|---------|---------|---------|---------|---------|----------|----------|
| No. of Cores x 18AWG (7 x 26)                  | 2       | 3       | 4       | 6       | 8       | 10       | 12       |
| Max. DC Resistance Conductor (Ω/km)            | 22.7    |         |         |         |         |          |          |
| Max. DC Resistance Screen                      | 78.5    |         |         |         |         |          |          |
| Capacitance Conductor to Conductor (Pf/m)      | 95      | 90      | 75      | 75      |         |          |          |
| Capacitance Conductor to Cond. + Screen (Pf/m) | 175     | 170     | 160     | 140     |         |          |          |
| Nominal inductance (μH/ m)                     | 0.5     |         |         |         |         |          |          |
| Max. Recommended Current at 25°C (Amps)        | 5       | 5       | 4       | 3.5     |         |          |          |
| Max. Operating Voltage (Vrms)                  | 300     |         |         |         |         |          |          |

## REFERENCE & STANDARDS

(BS) EN 50290-2

RoHS Directives

IEC 60332-1

## ORDERING INFORMATION

| Part Number | Description                                                               |
|-------------|---------------------------------------------------------------------------|
| VSC218P     | Voltan UK 2 Core, 18 AWG Shielded Multi Conductor cable, PVC 305M / Roll  |
| VSC318P     | Voltan UK 3 Core, 18 AWG Shielded Multi Conductor cable, PVC 305M / Roll  |
| VSC418P     | Voltan UK 4 Core, 18 AWG Shielded Multi Conductor cable, PVC 305M / Roll  |
| VSC618P     | Voltan UK 6 Core, 18 AWG Shielded Multi Conductor cable, PVC 305M / Roll  |
| VSC818P     | Voltan UK 8 Core, 18 AWG Shielded Multi Conductor cable, PVC 305M / Roll  |
| VSC1018P    | Voltan UK 10 Core, 18 AWG Shielded Multi Conductor cable, PVC 305M / Roll |
| VSC1218P    | Voltan UK 12 Core, 18 AWG Shielded Multi Conductor cable, PVC 305M / Roll |