



## 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: HFFR / LSZH

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  
above 12)

Drain Wire: Tinned Copper Wire

Screen: Aluminium/Polyester 100% Coverage

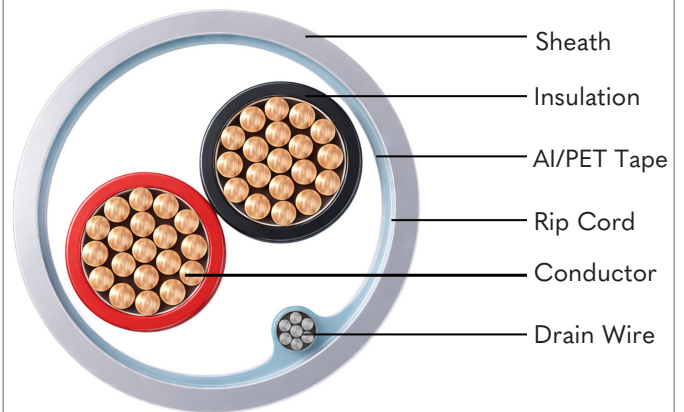
Rip Cord: Nylon Yarn

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	VSC218P	VSC318P	VSC418P	VSC618P	VSC818P
No of Cores	2	3	4	6	8
Conductor Construction (AWG)	18 (7 x26)				
Nom. Radial Thickness Insulation (mm)	0.2				
Nom. Radial Thickness Sheath (mm)	0.4				
Nom. Drain Wire Diameter (mm)	24 AWG (7*0.32)				
Nom. Overall Diameter (mm)	4.0	4.2	4.6	5.75	6.4
Operating Temperature (°C)	-25 / +75				
Max. Recommended Pulling Tension (N)	200	299	399	600	797
Min. Bend Radius (Install) (mm)	40	42	46	58	64
Nominal Cable Weight (kg/km)	29.6	39.2	49.4	70.9	89.5

## Electrical Characteristics

Part Number	VSC218P	VSC318P	VSC418P	VSC618P	VSC818P
No of Cores x 18 AWG (7 x 26)	2	3	4	6	8
Max. DC Resistance Conductor ( $\Omega$ /km)	22.7				
Max. DC Resistance Screen ( $\Omega$ /km)	78.5				
Capacitance conductor to conductor (pF/m)	95	90	75	75	75
Capacitance conductor to rest (pF/m)	175	170	160	140	140
Nominal Inductance ( $\mu$ H/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

RoHS directives

IEC 60332-1

## Ordering Information

Part Number	Description
VSC218P	2 Core, 18 AWG Shielded Multi Conductor cable, PVC 305M / Roll
VSC318P	3 Core, 18 AWG Shielded Multi Conductor cable, PVC 305M / Roll
VSC418P	4 Core, 18 AWG Shielded Multi Conductor cable, PVC 305M / Roll
VSC618P	6 Core, 18 AWG Shielded Multi Conductor cable, PVC 305M / Roll
VSC818P	8 Core, 18 AWG Shielded Multi Conductor cable, PVC 305M / Roll