

APPLICATION

Energy Monitoring, Access Control, BMS, Industrial automation (PLCs, Motor Drives).

DESIGN

Conductor: Tinned Copper Wire, Flexible

Insulation: Foam PE

Pair Colors: 1: White + Blue, 2: White + Orange
3: White + Green, 4: White + Brown

Cabling: N Pairs Twisted Together

Drain Wire: Tinned Copper Wire

Screen: Aluminium/Polyester 115% Coverage

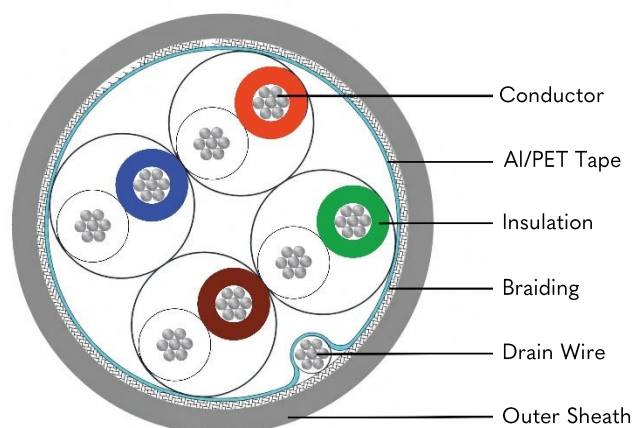
Braid: Tinned Copper Wire

Sheath Material: Flame-Retardant Low Smoke Zero
Halogen (LSZH)

Standard colour: Grey, RAL Code: 7046

Standard Put-up Length: 305 Meters

Cross-Section Drawing



PHYSICAL CHARACTERISTICS

Part Number	VFST118L	VFST218L	VFST318L	VFST418L
Number of Pairs	1	2	3	4
Conductor Gauge (AWG)	18			
Conductor Configuration (AWG)	7 x 26			
Nom. Radial Thickness Insulation (mm)	1	0.95		
Drain Wire Size (AWG)	24 (7 x 32)			
Coverage Braid (%)	65			
Nominal Radial Thickness Sheath (mm)	0.8			
Nom. Overall Diameter (mm)	9	11.5	13.0	14.6
Operating Temperature (C°)	-25 to +75			
Max. Pulling tension (N)	350	460	520	585
Min.Bend Radius (Install) (mm)	90	115	130	146
Nominal Cable Weight (kg/km)	81	128	169	209

ELECTRICAL CHARACTERISTICS

Part Number	VFST118L	VFST218L	VFST318L	VFST418L
Number of Pairs	1	2	3	4
Max. DC Resistance Conductor (Ω/km)	22.7			
Max. DC Resistance Screen (Ω/km)	20			
Nominal Impedance (Ω)	120			
Capacitance core to core (pF/m)	32	35	38	38
Capacitance core to rest. (pF/m)	70	66	69	69
Nominal Attenuation at 1 Mhz (db/100m)	1.30			
Max. Recom. Current @ 25°C (Amps)	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
VFST118L	Voltan UK RS-485 1 Pair, 18 AWG Tinned Copper Shielded Cable with Drain Wire, LSZH
VFST218L	Voltan UK RS-485 2 Pair, 18 AWG Tinned Copper Shielded Cable with Drain Wire, LSZH
VFST318L	Voltan UK RS-485 3 Pair, 18 AWG Tinned Copper Shielded Cable with Drain Wire, LSZH
VFST418L	Voltan UK RS-485 4 Pair, 18 AWG Tinned Copper Shielded Cable with Drain Wire, LSZH