

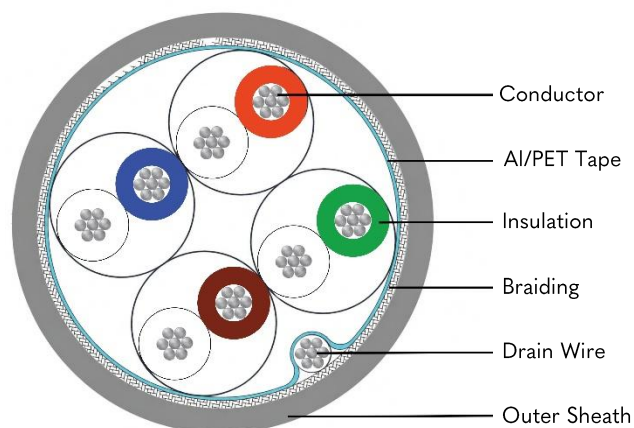
APPLICATION

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 5: White + Grey
Cabling: N Pairs Twisted Together
Drain Wire: Tinned Copper Wire
Screen: Aluminium/Polyester 100% 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	VFST124L	VFST224L	VFST324L	VFST424L	VFST524L
Number of Pairs	1	2	3	4	5
Conductor Gauge (AWG)	24				
Conductor Configuration (AWG)	7 x 32				
Nom. Radial Thickness Insulation (mm)	0.6				
Drain Wire Size (AWG)	24 (7 x 32)				
Coverage Braid (%)	90				
Nominal Radial Thickness Sheath (mm)	0.8				
Nom. Overall Diameter (mm)	5.9	7.8	8.6	9.3	10.4
Operating Temperature (C°)	-25 to +75				
Max. Pulling tension (N)	320	385	460	485	766
Min.Bend Radius (Install) (mm)	59	78	86	93	104
Nominal Cable Weight (kg/km)	49	80.5	92.6	114.4	143.2

ELECTRICAL CHARACTERISTICS

Part Number	VFST124L	VFST224L	VFST324L	VFST424L	VFST524L
Number of Pairs	1	2	3	4	5
Max. DC Resistance Conductor (Ω/km)	88				
Max. DC Resistance Screen (Ω/km)	20				
Nominal Impedance (Ω)	120				
Capacitance core to core (pF/m)	32	40	43	43	43
Capacitance core to rest. (pF/m)	70	85	87	87	87
Nominal Attenuation at 1 Mhz (db/100m)	2.06				
Nom. Velocity of Propagation (%)	66				
Max. Recom. Current @ 25°C (Amps)	2.1		1.54	1.54	
Max. Operating Voltage (Vrms)	300				

REFERENCE & STANDARDS

(BS) EN 50290-2

RoHS Directives

IEC 60332-1

ORDERING INFORMATION

Part Number	Description
VFST124L	Voltan UK RS-485 1 Pair, 24 AWG Tinned Copper Shielded Cable with Drain Wire, LSZH
VFST242L	Voltan UK RS-485 2 Pair, 24 AWG Tinned Copper Shielded Cable with Drain Wire, LSZH
VFST324L	Voltan UK RS-485 3 Pair, 24 AWG Tinned Copper Shielded Cable with Drain Wire, LSZH
VFST424L	Voltan UK RS-485 4 Pair, 24 AWG Tinned Copper Shielded Cable with Drain Wire, LSZH
VFST524L	Voltan UK RS-485 5 Pair, 24 AWG Tinned Copper Shielded Cable with Drain Wire, LSZH