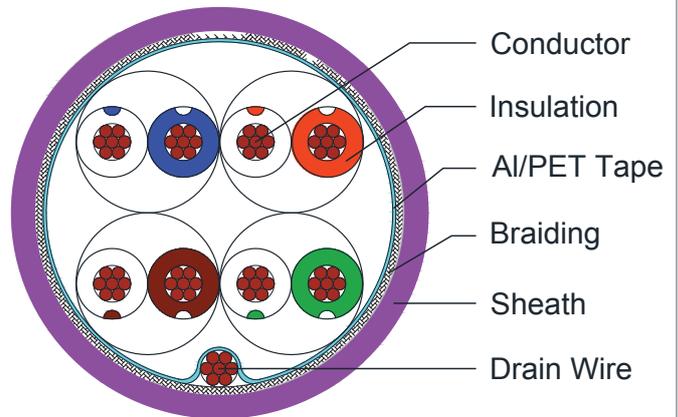## APPLICATION

Building Management Systems (BMS),

Access Control Instrumentation.

DESIGN

Conductor: Tinned Copper Wire, Flexible
Insulation: Polyethylene (PE)   Pair 1: White / Blue + Blue / White   Pair 2: White / Orange + Orange / White   Pair 3: White / Green + Green / White   Pair 4: White / Brown + Brown / White   Pair 5: White / Grey + Grey / White
Cabling: N Pairs twisted together
Screen : Aluminium / Polyester 100% Coverage
Drain Wire: Tinned Copper wire
Braid: Tinned Copper wire
Sheath Material: Halogen Free, Flame Retardant (HFFR/LSZH), PVC. Standard colour: Purple
Standard Put-up Length: 305 Meters

Cross Section Drawing

- Conductor
- Insulation
- Al/PET Tape
- Braiding
- Sheath
- Drain Wire

Physical Characteristics

Part Number	VFST124L/P	VFST224L/P	VFST324L/P	VFST424L/P
Number of Pairs	1	2	3	4
Conductor Configuration (AWG)	24 (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	8.6	9.3	10.4
Operating Temperature (C°)	-25 / +75			
Max. Pulling Tension (N)	320	460	485	766
Min. Bend Radius (Install) (mm)	59	86	93	104
Nominal Cable Weight (kg/km)	49	92.6	114.4	143.2

CE ISO CERTIFIED COMPANY ISO 9001:2015 RoHS

VOLTAN
POWERING CONNECTIONS • ENERGIZING SOLUTIONS

Low Capacitance RS-485
24AWG Computer Cable
Shielded, HFFR/LSZH/PVC
Sheath

Electrical Characteristics

Part Number	VFST124L/P	VFST224L/P	VFST324L/P	VFST424L/P
Max. DC Resistance Conductor (Ω/km)		88		
Max. DC Resistance Screen (Ω/km)	1.5			
Nominal Impedance (Ω)	120			
Capacitance core to core (pF/m)	32	43	43	43
Capacitance core to rest. (pF/m)	70	87	87	87
Nominal Attenuation at 1 Mhz (db/100m)	2.6			
Nominal Velocity of Propagation (1%)	66			
Max. Recom. Current @ 25°C (Amps)	2.1	1.54	1.54	1.54
Max. Operating Voltage (Vrms)	300			

Reference Standards

(BS) EN 50290-2	IEC 61034, IEC 60754 - 1 & 2
IEC 60228	RoHS directives
IEC 60332-1	

Ordering Information

Part Number	Description
VFST124L	RS-485 1 Pair, 24 AWG Tinned Copper Shielded Cable with Drain Wire, LSZH
VFST224L	RS-485 2 Pair, 24 AWG Tinned Copper Shielded Cable with Drain Wire, LSZH
VFST324L	RS-485 3 Pair, 24 AWG Tinned Copper Shielded Cable with Drain Wire, LSZH
VFST424L	RS-485 4 Pair, 24 AWG Tinned Copper Shielded Cable with Drain Wire, LSZH
VFST124P	RS-485 1 Pair, 24 AWG Tinned Copper Shielded Cable with Drain Wire, PVC
VFST224P	RS-485 2 Pair, 24 AWG Tinned Copper Shielded Cable with Drain Wire, PVC
VFST324P	RS-485 3 Pair, 24 AWG Tinned Copper Shielded Cable with Drain Wire, PVC
VFST424P	RS-485 4 Pair, 24 AWG Tinned Copper Shielded Cable with Drain Wire, PVC

Voltan Technology Limited
48 Ravenor Park Road, Greenford, UB6 9QY, London, United Kingdom.

CE   ISO CERTIFIED COMPANY 9001:2015   RoHS