



APPLICATION

Computer Cables used for EIA RS-485 applications.

DESIGN

Conductor: Tinned Copper wire, flexible

Insulation: Foam or solid PE

Color code

Pair 1: White/Blue + Blue/White

Pair 2: White/Orange + Orange/White

Pair 3: White/Green + Green/White

Pair 4: White/Brown + Brown/White

Color code for C1444

Pair 1: White/Orange + Orange/White

Core 1: Blue/White

Pair: Two twisted wires

Cable Core : N pairs stranded

Screen: Aluminium/Polyester 100% Coverage

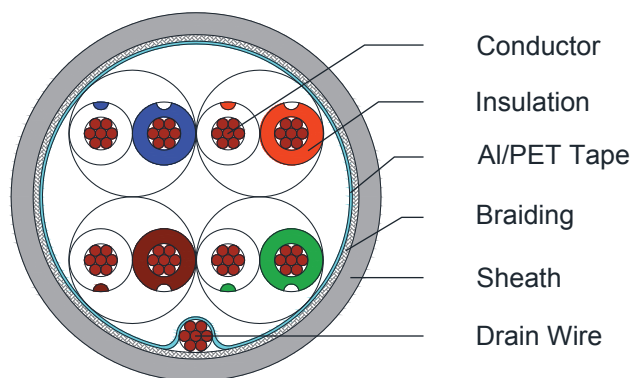
Drain Wire: Tinned Copper 24AWG (7 x 32)

Braid : Tinned Copper Wire

Sheath Material : Flame Retardant Polyvinyl Chloride (PVC) Standard Color: Grey

Standard Put Up Length: 305 or 500 metres

Cross Section Drawing



Physical Characteristics

Part Number	VFST 122FPVC	VFST 222FPVC	VFST 322FPVC	VFST 422FPVC	VFST 124FPVC	VFST 224FPVC	VFST 324FPVC	VFST 424FPVC
No. of pairs	1	2	3	4	1	2	3	4
Conductor Gauge (AMG)	22				24			
Conductor configuration (AMG)	7 x 30				7 x 32			
Insulation material	FPE	FPE	FPE	FPE	FPE	PE	PE	PE
Nom. Radial Thickness Insulation (mm)	0.6	0.5	0.5	0.5	0.55	0.55	0.55	0.55
Coverage braid (%)	65				90			
Nom. Radial Thickness Sheath (mm)	0.8							
Nom. Overall Diameter (mm)	6.1	8.5	9.0	10.3	5.9	8.0	8.6	9.3
Operating Temperature (°C)	-25 / +75							
Max. Pulling Tension (N)	265	355	400	445	320	385	460	485
Min. Bend Radius (install) (mm)	60	85	95	105	60	85	90	100
Nominal Cable Weight (kg/km)	63.7	75.6	97	119.1	49	80.5	92.6	114.4

Electrical Characteristics

Part Number	VFST 122FPVC	VFST 222FPVC	VFST 322FPVC	VFST 422FPVC	VFST 124FPVC	VFST 224FPVC	VFST 324FPVC	VFST 424FPVC
No. of pairs	1	2	3	4	1	2	3	4
Max. DC Resistance Conductor (Ω/km)	57.4				88			
Max. DC Resistance Screen (Ω/km)	20				15			
Nominal Impedance (Ω)	120							
Capacitance core to core (pF/m)	36	37	38	38	32	42	42	45
Capacitance core to rest (pF/m)	69	69	69	69	70	80	80	90
Nom. Attenuation at 1 MHz (dB/100m)	2.05				2.6			
Max. Recom. Current @ 25°C (Amps)	2.7	2.7	2.7	2.7	2.1	2.1	1.54	1.54
Max. Operating Voltage (Vrms)	300							

Reference Standards

IEC 60332-1-2 & IEC 60332-1-3

IEC 60228

RoHS directives

(BS)EN 50290-2

UL 1581

Ordering Information

Part Number	Part Number
VFST122FPVC	Voltan 1 Pair 22 AWG Tinned Copper Shielded Cable, FR-PVC Sheath
VFST222FPVC	Voltan 2 Pair 22 AWG Tinned Copper Shielded Cable, FR-PVC Sheath
VFST322FPVC	Voltan 3 Pair 22 AWG Tinned Copper Shielded Cable, FR-PVC Sheath
VFST422FPVC	Voltan 4 Pair 22 AWG Tinned Copper Shielded Cable, FR-PVC Sheath
VFST124FPVC	Voltan 1 Pair 24 AWG Tinned Copper Shielded Cable, FR-PVC Sheath
VFST224FPVC	Voltan 2 Pair 24 AWG Tinned Copper Shielded Cable, FR-PVC Sheath
VFST324FPVC	Voltan 3 Pair 24 AWG Tinned Copper Shielded Cable, FR-PVC Sheath
VFST424FPVC	Voltan 4 Pair 24 AWG Tinned Copper Shielded Cable, FR-PVC Sheath