



## F/UTP 4 Pair Cat5e 24awg Solid PVC Sheath Grey

Date					Part Number
01.01.15					<b>39 3631</b>
Sheath Printing	VELOCITY PREMIUM C5E F/UTP 24AWG SOLID PVC 4PR TIA/EIA-568-B.2-1 NVP 67% ****M MM/DD/YYYY				
Category	F/UTP CAT5E-4P-PVC				
Test Standard	ISO/IEC11801、TIA-568-C.2 YD/T1019				
Conductor	Material	Solid-Bare Copper			
	Nom.O.D.(mm)	0.50	up	+0.005	
			down	-0.005	
Insulation	Material	HDPE			
	Diameter	0.95±0.03 mm			
Screening Material	Aluminum Foil				
Sheath	Thickness	0.55±0.05mm			
	External O.D.	5.8±0.4 mm			
	Surface	Clean,Frap,Satiation			
	Material	PVC(complies RoHS)			
	Color	Grey – RAL 7035			
Surface Printing	Letter height	3.0±0.3mm			
	Color	Black			
	Print error & Space	≤±0.5%, 1m			
Core Color	1 White- Blue /Blue	2 White-Orange /Orange			
	3 White- Green /Green	4 White- Brown /Brown			
Packing					
Carton dimension	41×41×21cm				
Packing length	305±1.5m				
Rip-cord	Yes	Drain wire	Yes		
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)	≥13.5			
	Elongation(%)	≥150			
	Aging Period( °C×hrs)	100°C×24h×7d			
	After Aging Tensile Strength(Mpa)	≥12.5			
	Elongation(%)	≥125			
Electrical Characteristics (20°C)	1.0-100.0MHz Characteristic Impedance(Ω)	100±15			
	1.0-100.0MHz Delay Shew (ns/100m)	≤45			
	unbalanced-to-ground capacitance (pf/100m) max	330			
	DC Resistance (Ω/100m) max	9.5			
	DC Conductor Resistance Unbalance (%)max	5.0			

Technical Performance (100m):				
Frequency (MHz)	RL ≥dB	ATT(20°C) ≤dB	NEXT ≥dB	PHASE DELAY ≤ns
1	20.0	2.0	65.3	570.00
4	23.0	4.1	56.3	552.00
8	24.5	5.8	51.8	546.73
10	25.0	6.5	50.3	545.38
16	25.0	8.2	47.2	543.00
20	25.0	9.3	45.8	542.05
25	24.3	10.4	44.3	541.20
31.25	23.6	11.7	42.9	540.44
62.5	21.5	17.0	38.4	538.55
100	20.1	22.0	35.3	537.60

Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB
1	62.3	60.8
4	53.3	48.8
8	48.8	42.7
10	47.3	40.8
16	44.4	36.7
20	42.8	34.8
25	41.3	32.8
31.25	39.9	30.9
62.5	35.4	24.9
100	32.3	20.8