

Manufacturing Communication Cables for Data, Voice, Electronic Systems and Detonators

PS-72-24	UTP Cat5e Outdoor Pro	oduct Specification			
Issued by: Customer Service		Effective Date: 2013/08/03	Rev. 0	Pg. 1 of 1	
Approved: 2013/08/03 11:08 - Stienie Silvis - Quality Assurance Manager					

Compliant to ISO 11801, TIA/EIA 568-C.2 and EN50173 EC Verified

Material, Construction & Packaging

Conductor 24 AWG solid bare copper (0.511mm)

Insulation Polyethylene

Pairs Colours 1. Blue/White-Blue

Green/White-Green
Orange/White-Orange
Brown/White-Brown

Primary Sheath PVC Nominal OD 5.2 mm Secondary Sheath Polyethylene Black UV Resistant

Nominal OD 6.2mm

Weight & Packaging 22 Kg/500m reel

11 Kg/305m box

Fire Safety Rating IEC 60332-1

Temperature Range Installation 0° to 50°

Operational -20 $^{\circ}$ to +70 $^{\circ}$.



Transmission Characteristics

Frequency M/Hz	Attenuation	Next dB	PSNext dB	PSELFEXT dB
	dB/100m			
1	2.1	65.3	62.3	60.8
4	4.3	56.3	53.3	48.7
10	6.6	50.3	47.3	40.8
16	8.2	47.3	44.3	36.7
20	9.2	45.8	42.8	34.7
31.25	11.8	42.9	39.9	30.9
62.5	17.1	38.4	35.4	24.8
100	22	35.3	32.3	20.8

Electrical Characteristics at 20°

DC Resistance	93.8 Ohms/Km max		
Resistance Unbalance	2% max		
Mutual Capacitance	56 nf/Km max		
Capacitance Unbalance	1000 pF/Km max		
Skew	450 ns/Km max		
Velocity of Propagation	68% (0.68 x 3x10 ⁸ m/s)		
Characteristic Impedance	100 Ohms <u>+</u> % 15% 1.0 Mhz – 100Mhz		