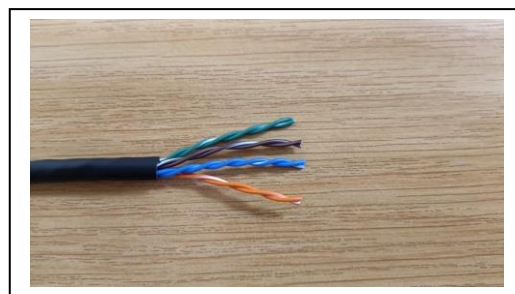


PS-72-38	UTP Cat5e UV Black		
Issued by: Production	Effective Date: 2025/02/20	Rev. 0	Pg. 1 of 1
Approved: 2025/02/20 16:01 - Kgomoetso Mokoena			

**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	(0.95mm)
	2. Green/White-Green	(0.95mm)
	3. Orange/White-Orange	(0.91mm)
	4. Brown/White-Brown	(0.91mm)
Sheath	PVC (RoHS Compliant)	Nominal OD 5.2 mm
Min Wall Thickness (Sheath)	0.450mm \pm 0.05mm	
Weight & Packaging	16 Kg/500m reel	
	11 Kg/305m box	
Fire Safety Rating	IEC 60332-1	
Temperature Range	Installation 0° to 50° Operational -20° to +70°.	



Transmission Characteristics

Frequency M/Hz	Attenuation dB/100m	Next dB	PSNext dB	PSELFEXT dB
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 \pm 15% 1.0 Mhz – 100Mhz