



High quality, economical, CAT5e Ethernet data cable designed for portable use. Resilient yet flexible for repeated coiling. Four stranded, twisted pairs comprise an EIA/TIA568B2/IEC 61156-6 compliant cable with TPE outer jacket.

General Specifications	
Conductors	24 AWG (0.25 mm ²) 7/32 stranded tinned copper. Nom. Diameter 0.0236" [0.6 mm]
Insulation	High Density Polyethylene, Nom. Wall Thickness 0.011" [0.28 mm], Nom. Diameter 0.046" [1.2 mm]
Pairs	Color Coded singles twisted into pairs, Nom. Diameter 0.092" [2.3 mm]
	Color Code: White/Blue X Blue; White/Orange X Orange; White/Green X Green; White/Brown X Brown
Assembly	4 twisted pairs twisted together and wrapped with a foam polypropylene tape to form a cable core. Nom. Diameter 0.197" [5 mm]
Shields	An overall shield of 38 AWG tinned copper braid (75% minimum coverage), shall be applied over the cable core. A second shield of aluminized polyester foil (Foil in, 100% coverage) shall be applied over the braid. Nom. Diameter 0.216" [5.5 mm]
Jacket	Thermoplastic Elastomer, Black, Nom. Wall Thickness 0.037" [0.94 mm] (Pressure) Overall Cable Diameter 0.29" +/- 0.010" [7.4 mm +/- 0.254 mm] Jacket Is Sunlight Resistant Jacket Is Weld Spatter Resistant Jacket Is Cutting/Machining Oil Resistant (Per Test Report #TR 08-0001) (6 Months @ 20°C) Tensile Strength Retention, 80% Nom. Elongation Retention, 100% Nom.
Marking	DATAPLEX WDPCAT5ET 24 AWG SHIELDED 100 MHZ DATA CABLE CAT5/CAT5E DATA SF/UTP -- E194712 C(UL)US CMX OUTDOOR - CM 4PR 24 AWG 75C SUN RES
Weight	43 lbs./mft (64 kg/km)
Flex Rating	≥ 1 million flexes, assuming bend radii of approximately 40 mm, flex rate 20 bends/min.
Flex Life (Pending)	(126 cycles/min, @ 20 °C) 1 million cycle test (10x cable O.D., Minimum radius) 10 million cycle test (20x cable O.D., Minimum radius)
Torsion (Pending)	(1 Lb Load, 360°, 71 Cycles/Min, @ 20C) 3 Million Cycle Test
Temperature Rating	75°C Max. -20°C (Per UL 444 Cold Bend) -40°C Min. (Manufacturer's Recommended)
Compliance	RoHS Compliant Materials POE Compliant (802.3Af) To 90 Meters When Installed Per Recommendations In TIA TSB-184 Cable Will Meet CAT5e Channel Requirements To 90 Meter Length
Approvals	NEC (UL) Type CMX Outdoor-CM CEC C(UL) Type CMX Outdoor-CM

RoHS
Compliant

Worldwide Exclusive Distribution

Los Angeles
+1 818.899.8818

London
+44 (0)20.8574.9700

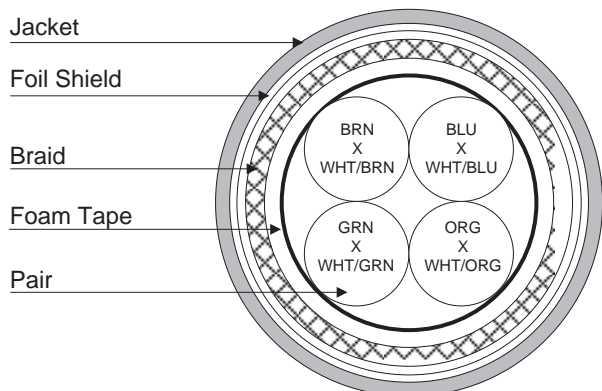
New York
+1 201.896.8600

tmb
www.tmb.com
sales@tmb.com

Toronto
+1 519.538.0888

Beijing
+86 10.8492.1587

Riga
+371 6389 8886



Electrical Specifications		
Voltage Rating	300V Max.	
Velocity of Propagation	68%	
Impedance	1-100 MHz	100 +/-15 Ohm
Impedance, smoothed	5 - 100 MHz	100 ± 20 Ohm, typical
Dielectric Strength	1500V RMS Min.	
Capacitance, Mutual	13.5 pF/ft. At 1 MHz Nom.	
Return Loss	$1 \leq f < 10$ MHz	$20 + 6 \log(f)$ dB min*
	$10 \leq f < 20$ MHz	26 dB min*
	$20 \leq f \leq 100$ MHz	$26 - 5 \log(f/20)$ dB min*
PS NEXT	$1 \leq f \leq 100$ MHz	$32.3 - 15 \log(f/100)$ dB min
NEXT	$1 \leq f \leq 100$ MHz	$35.3 - 15 \log(f/100)$ dB min
PSACRF	$1 \leq f \leq 100$ MHz	$20.8 - 20 \log(f/100)$ dB min
ACRF	$1 \leq f \leq 100$ MHz	$23.8 - 20 \log(f/100)$ dB min
Insertion Loss	$1 \leq f \leq 100$ MHz	$1.2[1.967 \sqrt{f} + 0.023(f) + 0.050/\sqrt{f}]$ db max
Delay	$1 \leq f \leq 100$ MHz	$534 + 36/\sqrt{f}$ ns max
Delay Skew	$1 \leq f \leq 100$ MHz	< 25ns
Coupling Attenuation	$30 \leq f \leq 100$ MHz	≥ 60 dB E3* Segregation class D acc. EN 50174-2 Tested per IEC 62153-4-9
DC Resistance	14.0 Ohm Max.	

*Per ODVA Volume 2 Ethernet/IP

Note: All testing is conducted off the reel.