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PRODUCT SPECIFICATION

DURA-FLEX Part Number: 08B15-8

Product Description:

Extreme high flex industrial Ethernet patch cord Cat 5e ScTP – Type CM, AWM Listed Style 2463

Conductor Data:

Material 7/34 Stranded Tinned Copper
Gauge 26 AWG

Insulation Data:

Material High Density Polyethylene
Nominal Wall Thickness .009” Nominal
Diameter (conductor) .037” Nominal

Cabling Data:

Number of Pairs 4
Color Code P1 – Blue & White /Blue
P2 – Orange & White/Orange
P3 – Green & White/Green
P4 – Brown & White/Brown
Core Construction (4) Twisted Pairs Twisted Together and Wrapped with a Foam Polypropylene Tape.

Shield Data:

Overall Braid 38 AWG Tinned Copper Braid Applied Over Cable Core
Braid Coverage 75% Minimum
Foil Shield Aluminized Polyester Foil Applied Over the Braid (Foil In)
Foil Coverage 100%

Jacket Data:

Material Thermoplastic Elastomer
Color Black
Markings White Lettering
Nominal Wall Thickness .037” Nominal
Diameter (OD) .255" ± .005
Legend DURA-FLEX EXTREME HIGH FLEX INDUSTRIAL ETHERNET PATCH CORD
CAT 5e ScTP P/N 08B15-8 -- E191696-637 C(UL)US
TYPE CMX OUTDOOR - CM 4PR 26 AWG 75C OR AWM 2463 -- RoHS -- (LOT
DESIGNATOR) (SEQUENTIAL FOOTAGE)

Physical Properties:

Temperature Max 80°C
Temperature Min -40°C (Mfr)
Wt. / M' Nominal 34.9 Lbs. Net
Flex Life (Pending) (126 Cycles/Min) 1 Million Cycle Test (10x Cable O.D., Minimum Radius)

Physical Properties continued:

Torsion Test (Pending)	(1 Lb. Load, 360°, 71 Cycles/Min) 3 Million Cycle Test
Jacket Cutting / Machining and Oil Resistance (6 Months @ 20°C)	Tensile Strength Retention, Nom. 80% Elongation Retention, Nom. 100%

Electrical Characteristics: (For 100m of Cable)

POE Compliance (802.3af)	Up to 262' (80m) when installed per TIA TSB-184 recommendations.	
Capacitance, Mutual, Nominal	13.5 Pf/Ft. at 1 MHz	
Dielectric Withstanding, Min.	2000v RMS	
Voltage Rating, Max.	600v	
D.C. Resistance, Max.	42.6 Ω/1,000'	
Impedance	100+/- 15 Ω 1-100 MHz	
Impedance, Smoothed	100 +/- 10 Ω Typical 5 - 100 MHz	
Structural Return Loss	23 dB	1-20 MHz
	23 - 10 Log (F/20)	20-100 MHz
Return Loss	1 - 10 MHz	20 + 5 Log (F) dB Min
	10 - 20 MHz	25 dB Min
	20 - 100 MHz	25- 8.6 Log (F/20) dB Min
Power Sum Near End Cross Talk	1-100 MHz	64 - 15 Log (F/.772) Min
Near End Cross Talk	1-100 MHz	67 - 15 Log (F/.772) Min
Power Sum Equal Level FEXT	1-100 MHz	63 - 20 Log (F/.772) Min
Equal Level Far End Cross Talk	1-100 MHz	66 - 20 Log (F/.772) Min
Attenuation	1-100 MHz	1.5[1.967 sqrt (F) +.023(F) +.05/Sqrt (F)] Max
Delay	1-100 MHz	534 + 36/sqrt (F)
Delay Skew	1-100 MHz	<25ns
Coupling Attenuation Per IEC 62153-4-9	30-100 MHz	50 dB Minimum
Velocity of Propagation	68%	

Note: All testing is conducted off the reel.

AGENCY APPROVALS:

NEC UL TYPE	CMX OUTDOOR – CM, File number E191696
CEC cUL TYPE	CMX OUTDOOR – CM
UL AWM STYLE	2463 (80C 600V)
RoHS	RoHS Compliant