P.O. Box 567 Route 28N North Creek, NY USA 12853 Tel: 518.251.3302 Fax:518.251.2908 www.Dura-Flex.com

PRODUCT SPECIFICATION

DURA-FLEX Part Number: 08B15-8

Product Description:
Extreme high flex industrial Ethernet patch cord Cat 5e ScTP – Type CM

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 -- TYPE CMX OUTDOOR - CM 4PR 26 AWG 75C -- 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) 10 Million Cycle Test (20x 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 10 - 20 MHz 20 - 100 MHz	20 + 5 Log (F) dB Min 25 dB Min 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.