

1) CONSTRUCTION:	<b>CAT6A TACTICAL INDUSTRIAL SHIELDED ETHERNET CABLE SPECS</b>		NOM. DIA.
CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER		.019"
INSULATION:	HIGH DENSITY POLYETHYLENE, .009" NOM. WALL THICKNESS		.036"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS		.072"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER WITH A CENTRAL SPLINE AND WRAPPED WITH A FOAM POLYPROPYLENE TAPE TO FORM A CABLE CORE.		.176"
SHIELDS:	AN OVERALL SHIELD OF 38 AWG TINNED COPPER BRAID (80% MINIMUM COVERAGE) SHALL BE APPLIED OVER THE CABLE CORE. AN ALUMINIZED POLYESTER FOIL SHIELD (FOIL IN, 100% COVERAGE) SHALL BE APPLIED OVER THE BRAID SHIELD.		.195"
JACKET:	POLYURETHANE, BLACK, .022" NOM. WALL THICKNESS	OVERALL CABLE DIAMETER	.239" NOM. (± .010")
	(PRESSURE)		

2) PHYSICAL PROPERTIES:	
TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	32.6 LBS.
JACKET IS UV RESISTANT	

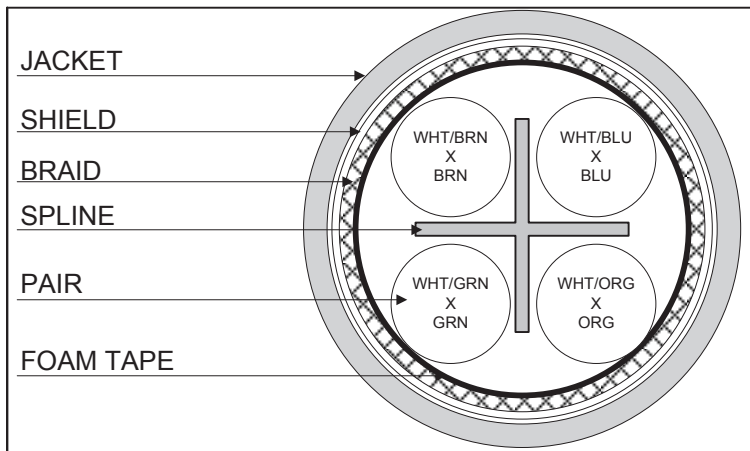
3) ELECTRICAL CHARACTERISTICS:  
SEE PAGE 2

4) AGENCY APPROVALS:

5) APPLICATION:  
RoHS COMPLIANT MATERIALS. U.S. PATENT NO. US 8,487,184 B2

6) PRINT: (WHITE INK)  
DURASHIELD-6ASR -- TACTICAL DEPLOYABLE SHIELDED CATEGORY 6a SF/UTP 4PR 26 AWG -- U.S. PATENT NO. US 8,487,184 B2 -- RoHS -- **(LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)**

- 7) COLOR CODE:
1. BLUE X WHITE/BLUE
  2. ORANGE X WHITE/ORANGE
  3. GREEN X WHITE/GREEN
  4. BROWN X WHITE/BROWN



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Created 08/28/15	DRAWN: BMD 01/12/16	
REV. 03	CHECKED: JFR 1/12/16	
TITLE 4PR. SF/UTP HIGH FLEX INDUSTRIAL ETHERNET PATCH CORD -- CATEGORY 6a		
P/N	DURASHIELD-6ASR	1 of 2

3) ELECTRICAL CHARACTERISTICS: (FOR 100m OF CABLE)  
 QuickFlex Cat 6A Shielded Tactical & Rugged Deployable Ethernet Assembly Specs

CAPACITANCE, MUTUAL, NOM.	13.5 PF/FT. AT 1 MHz	
DIELECTRIC WITHSTANDING, MIN	1500V RMS	
VOLTAGE RATING, MAX.	300V	
D.C. RESISTANCE, MAX.	14.0 Ω	
IMPEDANCE, NOM.	100 ± 15 Ω 1 - 100 MHz	
	100 ± 20 Ω 100 - 500 MHz	
RETURN LOSS	1 ≤ f < 10 MHz	20 + 5 LOG(f) dB MIN
	10 ≤ f < 20 MHz	25 dB MIN
	20 ≤ f ≤ 500 MHz	25 - 8.6 LOG(f/20) dB MIN
PSNEXT	1 ≤ f ≤ 500 MHz	42.3 - 15 LOG (f/100) dB MIN
NEXT	1 ≤ f ≤ 500 MHz	44.3 - 15 LOG (f/100) dB MIN
PS ACRF	1 ≤ f ≤ 500 MHz	24.8 - 20 LOG(f/100) dB MIN
ACRF	1 ≤ f ≤ 500 MHz	27.8 - 20 LOG(f/100) dB MIN
INSERTION LOSS	1 ≤ f ≤ 500 MHz	1.5[1.82 √f + 0.0091(f) + 0.25/√f] dB MAX
DELAY	1 ≤ f ≤ 500 MHz	534 + 36/SQRT(f) ns MAX
DELAY SKEW	1 ≤ f ≤ 500 MHz	<45 ns
TCL	1 ≤ f ≤ 500 MHz	30 - 10 LOG(f/100) dB MIN
ELTCTL	1 ≤ f ≤ 30 MHz	35 - 20 LOG(f) dB MIN
PSANEXT LOSS (6 AROUND 1)	1 ≤ f < 50 MHz	67 dB MIN
	50 ≤ f ≤ 500 MHz	62.5 - 15 LOG (f/100) dB MIN
PSAFEXT (6 AROUND 1)	1 ≤ f ≤ 500 MHz	38.2 - 20 LOG(f/100) dB MIN
VELOCITY OF PROPAGATION	68%	

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