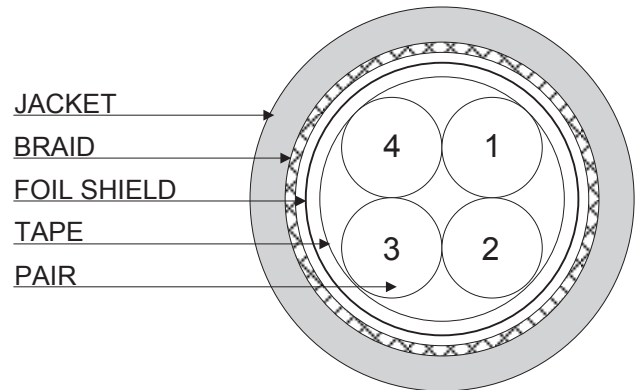


CAT5E SHIELDED 24AWG/4PAIR 350MHz TACTICAL INDUSTRIAL S/STP ETHERNET CABLE

- 1) CONSTRUCTION:
- | | | |
|-------------|--|---------------|
| CONDUCTOR: | 24 AWG SOLID TINNED COPPER | NOM. DIA. |
| INSULATION: | HIGH DENSITY POLYETHYLENE, .013" NOM. WALL THICKNESS | .0216" |
| PAIRS: | COLOR CODED SINGLES TWISTED INTO PAIRS | .047" |
| CABLE: | (4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH A CLEAR POLYESTER TAPE TO FORM A CABLE CORE | .094" |
| SHIELDS: | AN OVERALL ALUMINUM POLYESTER TAPE (FOIL OUT, 100% COVERAGE) SHALL BE APPLIED OVER THE CABLE CORE. A SECOND SHIELD OF 38 AWG TINNED COPPER BRAID (80% MINIMUM COVERAGE) SHALL BE APPLIED OVER THE FOIL SHIELD. | .194" |
| JACKET: | POLYURETHANE, BLACK, .032" NOM. WALL THICKNESS (PRESSURE) | .216" |
| | OVERALL CABLE DIAMETER | .280" ± .005" |
- 2) PHYSICAL PROPERTIES:
- | | |
|--------------------------|-----------|
| TEMPERATURE RATING, MAX. | 75°C |
| TEMPERATURE RATING, MIN. | -40°C |
| WT./M', NOM., NET. | 45.3 LBS. |
- JACKET IS UV RESISTANT
 POE COMPLIANT (802.3af) TO 100 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184
 CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 130 METER LENGTH
- 3) ELECTRICAL CHARACTERISTICS:
 SEE PAGE 2
- 4) AGENCY APPROVALS:
- 5) APPLICATION:
 HORIZONTAL CABLE FOR CAT 5e APPLICATIONS. RoHS COMPLIANT MATERIALS.
- 6) PRINT: (WHITE INK)
 DURASHIELD-5EXR -- TACTICAL DEPLOYABLE SHIELDED CATEGORY 5e SF/UTP 4PR 24 AWG -- RoHS --
(LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)
- 7) COLOR CODE:
1. WHITE/BLUE X BLUE
 2. WHITE/ORANGE X ORANGE
 3. WHITE/GREEN X GREEN
 4. WHITE/BROWN X BROWN



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Created 01/07/16	DRAWN: BMD 01/12/16	
REV. 02	CHECKED: GBM 01/12/16	
TITLE INDUSTRIAL ETHERNET/IP CABLE - 4 PR CAT 5e		
DRAWING# DURASHIELD-5EXR		1 of 2

3) ELECTRICAL CHARACTERISTICS: (FOR 100m OF CABLE)

CAPACITANCE, MUTUAL, NOM.	13.5 PF/FT. AT 1 MHz	
DIELECTRIC WITHSTANDING, MIN.	1500V RMS	
VOLTAGE RATING, MAX.	300V	
D.C. RESISTANCE, MAX.	9.38 Ω	
IMPEDANCE	100 +/- 15 Ω 1-100 MHz	
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
ATTENUATION	1 $\leq f \leq 100$ MHz	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 MIN E ₃ *

*PER ODVA VOLUME 2 ETHERNET/IP