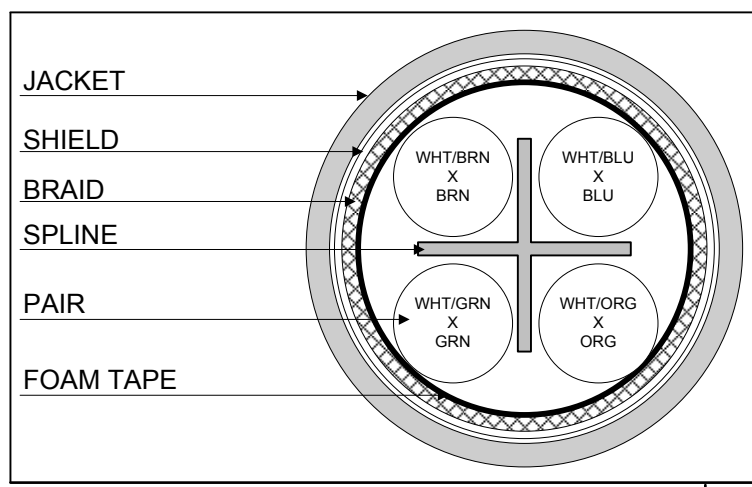


# PRODUCT SPECIFICATION: 10 Gig CableType #6 (CAT 6a)

- 1) CONSTRUCTION:
- |             |   |                        |                                      |
|-------------|---|------------------------|--------------------------------------|
| CONDUCTOR:  | 26 AWG 7/34 STRANDED TINNED COPPER  | NOM. DIA.              | .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:     | THERMOPLASTIC ELASTOMER, TEAL, .040" NOM. WALL THICKNESS  | OVERALL CABLE DIAMETER | .275" NOM. (± .010")<br>(BY PI TAPE) |
- 2) PHYSICAL PROPERTIES:
- |   |  |
|---|--|
| TEMPERATURE RATING, MAX.                | 75°C   |
| TEMPERATURE RATING, MIN.                | -20°C  |
| WT./M', NOM., NET.                      | 40.6 LBS.  |
| JACKET IS WELD SPATTER RESISTANT        |  |
| JACKET IS SUNLIGHT RESISTANT            |  |
| 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) |
| TORSION TEST (PENDING)                  |  |
| (1 LB LOAD, 360°, 71 CYCLES/MIN)        | 3 MILLION CYCLE TEST                                   |
| JACKET CUTTING/MACHINING OIL RESISTANCE |  |
| (6 MONTHS @ 20°C)                       |  |
| TENSILE STRENGTH RETENTION, NOM.        | 80%  |
| ELONGATION RETENTION, NOM.              | 100%   |
- 3) ELECTRICAL CHARACTERISTICS:  
SEE PAGE 2
- 4) AGENCY APPROVALS:  
NEC (UL) TYPE CMX OUTDOOR - CM  
CEC C(UL) TYPE CMX OUTDOOR - CM
- 5) APPLICATION:  
SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568-C.2 CATEGORY 6a APPLICATIONS.  
RoHS COMPLIANT MATERIALS.
- 6) PRINT:  
HIGH FLEX INDUSTRIAL ETHERNET/IP PATCH CORD CAT 6a SF/UTP P/N 5026 -- C(UL)US  
TYPE CMX OUTDOOR - CM 4PR 26 AWG 75C SUN RES -- 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



# PRODUCT SPECIFICATION: 10 Gig Cable Type #6 (CAT 6a)

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

CAPACITANCE, MUTUAL	13.5 PF/FT. AT 1 MHZ		
DIELECTRIC WITHSTANDING, MIN	1500V RMS		
VOLTAGE RATING, MAX.	300V		
D.C. RESISTANCE, MAX.	14.0 $\Omega$		
IMPEDANCE, NOM.	100 $\pm$ 15 $\Omega$ 1 - 100 MHZ		
	100 $\pm$ 20 $\Omega$ 100 - 500 MHZ		
RETURN LOSS	1 - 10 MHZ	20 + 5 LOG (F) dB MIN	
	10 - 20 MHZ	25 DB MIN	
	20 - 500 MHZ	25- 8.6 LOG(F/20) dB MIN	
PS NEXT	1 - 500 MHZ	42.3 - 15 LOG (F/100) dB MIN	
NEXT	1 - 500 MHZ	44.3 - 15 LOG (F/100) dB MIN	
PS ACRF	1 - 500 MHZ	24.8 - 20 LOG(F/100) dB MIN	
ACRF	1 - 500 MHZ	27.8 - 20 LOG(F/100) dB MIN	
ATTENUATION	1 - 500 MHZ	1.5[1.82 SQRT(F) +.0091(F) +.25/SQRT(F)] dB MAX	
DELAY	1 - 500 MHZ	534 + 36/SQRT(F)	
DELAY SKEW	1 - 500 MHZ	<25NS	
PS ANEXT LOSS (6 AROUND 1)	1 - 500 MHZ	62.5 - 15 LOG (F/100) dB	50 - 500 MHz
		67 dB	1 - 50 MHz
PS AFEXT (6 AROUND 1)	1 - 500 MHZ	38.2 - 20 LOG(F/100) dB	
VELOCITY OF PROPAGATION	68%		

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.