

# SPECIFICATIONS

- DESCRIPTION:** CATEGORY 6 CABLE, CONSISTING OF 4 PAIRS, 23 AWG , SHIELDED WITH A LOW SMOKE PVC JACKET. c(UL)us, CMP. PACKAGING TYPE: REEL
- CONDUCTOR:** 23 AWG SOLID BARE COPPER (.0221" NOM OD) INSULATION: FEP .041" NOM OD, .0094" AVG WALL
- PAIRING:** COMPONENTS ARE TWISTED INTO PAIRS WITH VARYING LEFT HAND LAYS TO MINIMIZE CROSSTALK.
 

PAIR #	COLOR
1	BLU PAIRED WITH WHT/BLU
2	ORG PAIRED WITH WHT/ORG
3	GRN PAIRED WITH WHT/GRN
4	BRN PAIRED WITH WHT/BRN
- CABLING:** THE FOUR (4) TWISTED PAIRS ARE CABLED AROUND AN ISOLATOR WITH A LEFT HAND LAY AND WRAPPED WITH A POLYESTER TAPE AND A 24 AWG SOLID TC DRAIN WIRE. AN ALUMINUM/POLYESTER TAPE IS APPLIED OVERALL (ALUMINUM SIDE IN). (25% ± 10% OVERLAP ON TAPE).
- OVERALL JACKET:** LOW SMOKE, FLAME RETARDENT PVC - SEE COLOR TABLE FOR CABLE COLOR  
.277" NOM OD
- MARKING:** THE CABLE IS IDENTIFIED WITH THE FOLLOWING PRINT  
LEGEND: OCC (WWW.OCCFIBER.COM) P/N OCC-FTP64PLM --- ETL VERIFIED CATEGORY 6, 4 PR 23 CMP C(UL)US AWG OCCV E322888 MADE IN USA MYLLDDS XXXXX FT  
  
WHERE: MYLLDDS = TRACEABILITY CODE  
XXXXX FT = SEQUENTIAL FOOTAGE MARKINGS
- AGENCY APPROVAL:** UNDERWRITERS LABORATORIES. INC. TYPE CMP, COMMUNICATIONS PLENUM CABLE, LISTED AS BEING SUITABLE FOR USE IN DUCTS, PLENUMS, AND OTHER SPACES USED FOR ENVIRONMENTAL AIR. ALSO LISTED AS HAVING ADEQUATE FIRE-RESISTANT AND LOW-SMOKE-PRODUCING CHARACTERISTICS IN ACCORDANCE WITH ARTICLE 800 OF THE NATIONAL ELECTRICAL CODE.
- TYPICAL CATEGORY 6 ELECTRICAL CHARACTERISTICS\*:**

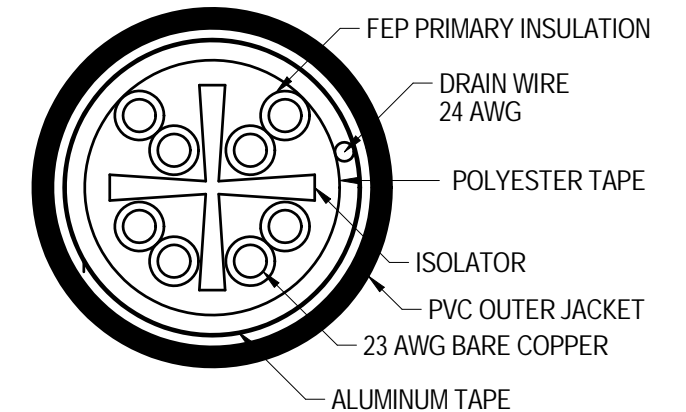
CHARACTERISTIC IMPEDANCE:	100 Ω
MAXIMUM CONDUCTOR RESISTANCE:	9.38 Ω/100 METERS @ 20°C
MAXIMUM RESISTANCE UNBALANCED:	5%
MAXIMUM MUTUAL CAPACITANCE:	5.6 nF/100 METERS @ 1kHz.
NOMINAL VELOCITY OF PROPAGATION (NVP):	71%
- PHYSICAL DATA:** TEMPERATURE RATING: OPERATION: -20 TO +60 CELSIUS  
INSTALLATION: 0 TO +60 CELSIUS
- PRODUCT APPROVAL REQUIRES CERTIFICATION OF COMPLIANCE TO E.U. RoHS DIRECTIVE 2002/95/EC

# ELECTRICAL PERFORMANCE

FREQUENCY (MHz.)	INSERTION LOSS MAX (dB/100 m)	NEXT LOSS MIN (dB)		ACR MIN. (dB)		ACRF MIN. (dB)		RETURN LOSS MIN. (dB)
		WP	PS	WP	PS	WP	PS	
1	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0
4	3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.0
8	5.3	60.8	58.8	55.5	53.4	49.7	46.7	24.5
10	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0
16	7.6	56.2	54.2	48.7	46.6	43.7	40.7	25.0
20	8.5	54.8	52.8	46.3	44.3	41.8	38.8	25.0
25	9.5	53.3	51.3	43.8	41.8	39.8	36.8	24.3
31	10.7	51.9	49.9	41.2	39.2	37.9	34.9	23.6
63	15.4	47.4	45.4	32.0	30.0	31.9	28.9	21.5
100	19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1
155	25.2	41.4	39.4	16.3	14.3	24.0	21.0	18.8
200	29.0	39.8	37.8	10.8	8.8	21.8	18.8	18.0
250	32.8	38.3	36.3	5.5	3.5	19.8	16.8	17.3

DISCRETE VALUES ARE FOR INFORMATION ONLY. EQUATIONS FOR SWEEPED FREQUENCIES GOVERN LIMITS. VERIFIED TO MEET ANSI/TIA 568-C.2 CAT 6 REQUIREMENTS.

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4 PR, 23 AWG FEP INSULATION

## CABLE COLOR TABLE

OCC-FTP64PLM-01	YELLOW
OCC-FTP64PLM-05	BLUE
OCC-FTP64PLM-07	WHITE
OCC PART NUMBER	JACKET COLOR

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES: FRACTIONS ±1/32" ANGLES ±1/2° 3 PLACE DECIMALS ±.005" 2 PLACE DECIMALS ±.01"

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THIRD ANGLE PROJECTION	
CRITICAL DIMENSION CODE	(F) = FUNCTION (M) = MATING (A) = AUDIT

MATERIAL	SEE NOTES AND TABLES
FINISH	SEE NOTES AND TABLES

DRAWN	D.A.HOLBERT	DATE	4/14/15
CHECKED	J.HOWE	DATE	5/18/15
ENGINEER	J.YANIK	DATE	4/14/15
APPROVED	D.INGLE	DATE	
PREVIOUS DWG			
NEXT DWG		FILENAME	C112184B.dft

DWG TITLE			CABLE, CAT 6, 23 AWG, 4 PR, SHIELDED, PLENUM, CMP		
SIZE	DWG NO.	REV			
B	C112184	B			
SCALE:	NONE	SHEET	1 OF 1		