

SPECIFICATIONS

1. **DESCRIPTION:** CATEGORY 6 CABLE, CONSISTING OF 4 PAIRS, 23 AWG, UNSHIELDED WITH A LOW SMOKE PVC JKT. CMP, c(UL)us TYPE FT6 PER UL 444 PACKAGING TYPE: BOX

2. **CONDUCTOR:** 23 AWG SOLID BARE COPPER (.0224" NOM OD)
INSULATION: FEP .039" NOM OD, .0085" AVG WALL

3. **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

4. **CABLING:** THE FOUR (4) TWISTED PAIRS ARE CABLED TOGETHER WITH A LEFT HAND LAY WITHIN THE OUTER JACKET WITH A TAPE SEPARATOR.

5. **OVERALL JACKET:** LOW SMOKE PVC, SEE COLOR TABLE FOR CABLE COLOR.
 .215" NOM OD
 .019" AVG WALL

6. **MARKING:** OCC (WWW.OCCFIBER.COM) P/N OCC-UE64PLM --- ETL VERIFIED CATEGORY 6 4 PR 23 AWG CMP C(UL)US OCCV 8322888 MADE IN USA MYLLDDS XXXXX FT

WHERE: MYLLDDS = TRACEABILITY CODE
 XXXXX FT = SEQUENTIAL FOOTAGE MARKINGS

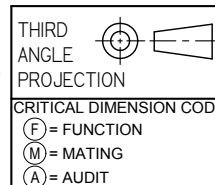
7. **AGENCY APPROVAL:** UNDERWRITERS LABORATORIES. INC. TYPE CMP, COMMUNICATIONS PLENUM CABLE, LISTED AS BEING SUITABLE FOR USE IN DUCTS, PLENUMS, AND OTHER SPACES USED FOR ENVIRONMENTAL AIR. ALSO LISTED AS HAVING ADEQUATE FIRE-RESISTANT AND LOW SMOKE-PRODUCING CHARACTERISTICS. IN ACCORDANCE WITH ARTICLE 800 OF THE NATIONAL ELECTRICAL CODE.

8. **CATEGORY 6 WORST CASE ELECTRICAL CHARACTERISTICS*:**
 CHARACTERISTIC IMPEDANCE: 100 Ω
 MAXIMUM CONDUCTOR RESISTANCE: 6.66 Ω/100 METERS
 MAXIMUM RESISTANCE UNBALANCED: 2.5%
 NOMINAL CAPACITANCE: 4.6 nF/1000 METERS
 MAXIMUM DELAY SKEW: 45 ns/100 METERS
 NOMINAL VELOCITY OF PROPAGATION: 73%
 STORAGE TEMPERATURE RANGE: N/A
 INSTALLATION TEMPERATURE RANGE: 0°C +60°C
 OPERATING TEMPERATURE RANGE: -20°C +60°C

* DISCRETE VALUES ARE FOR INFORMATION ONLY. EQUATIONS FOR SWEEP FREQUENCIES GOVERN LIMITS. VERIFIED TO MEET CAT 6 TIA/EIA-568-C.2 PERFORMANCE REQUIREMENTS PER THE VERIFICATION REQUIREMENTS DEFINED IN SUPPLIERS UL/ETL FILE(S).

9. PRODUCT APPROVAL REQUIRES CERTIFICATION OF COMPLIANCE TO E.U. RoHS DIRECTIVE 2002/95/EC

"OPTICAL CABLE CORPORATION (OCC) RESERVES THE RIGHT TO REVISE ANY AND ALL DESIGN SPECIFICATIONS."
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES: FRACTIONS ±1/32" ANGLES ±1/2° 3 PLACE DECIMALS ±.005" 2 PLACE DECIMALS ±.01"

MATERIAL SEE NOTES AND TABLES	FINISH SEE NOTES AND TABLES
CHECKED J.HOWE DATE 4/30/10	APPROVED J.CALLOWAY DATE 12/10/20
ENGINEER J.YANIK DATE 2/26/10	PREVIOUS DWG
DRAWN D.A.HOLBERT DATE 2/26/10	NEXT DWG
FILENAME C110079G.DFT	SCALE: NONE

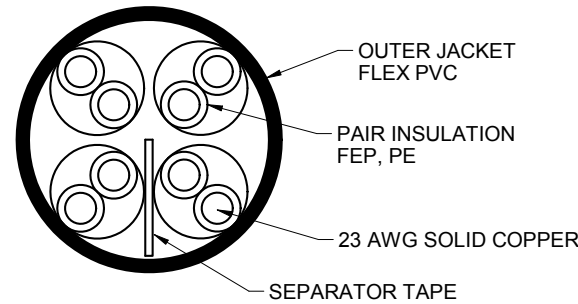
33 Superior Way
 Swannanoa, NC 28778
 Phone: 828-298-2260
 Fax: 828-298-2487
 www.occfiber.com

DWG TITLE CABLE, CAT 6+, 23 AWG, 4 PR, UTP, CMP		SIZE B	DWG NO. C110079	REV G
SHEET 1 OF 1		SCALE: NONE		

ELECTRICAL PERFORMANCE

Frequency (MHz.)	INSERTION LOSS MAX. (dB/100 m)		NEXT LOSS MIN. (dB)		ACR MIN. (dB)		PSNEXT LOSS MIN. (dB)		PSACR MIN. (dB)		ACRF MIN. (dB)		PSACRF MIN. (dB)		RL MIN. (dB)	
	TIA Std	Typical	TIA Std	Typical	TIA Std	Typical	TIA Std	Typical	TIA Std	Typical	TIA Std	Typical	TIA Std	Typical	TIA Std	Typical
1	2	1.8	74.3	89	72.3	87.2	72.3	87	70.3	85.2	67.8	83.1	64.8	81.1	20	31
4	3.8	3.6	65.3	79.3	61.5	75.7	63.3	77.3	59.5	73.7	55.8	70.6	52.8	68.6	23	29
8	5.3	5.1	60.8	74.5	55.4	69.4	58.8	72.5	53.4	67.4	49.7	64.4	46.7	62.4	24.5	33.3
10	6	5.8	59.3	72.9	53.3	67.1	57.3	70.9	51.3	65.1	47.8	62.4	44.8	60.4	25	33.9
16	7.6	7.4	56.2	69.6	48.7	62.2	54.2	67.6	46.7	60.2	43.7	58.2	40.7	56.2	25	34.2
20	8.5	8.3	54.8	68.1	46.3	59.8	52.8	66.1	44.3	57.8	41.8	56.2	38.8	54.2	25	34
25	9.5	9.3	53.3	66.5	43.8	57.2	51.3	64.5	41.8	55.2	39.8	54.1	36.8	52.1	24.3	35.1
31.25	10.7	10.4	51.9	64.9	41.2	54.5	49.9	62.9	39.2	52.5	37.9	52.1	34.9	50.1	23.6	34.5
62.5	15.4	15	47.4	60.1	32	45.1	45.4	58.1	30	43.1	31.9	45.9	28.9	43.9	21.5	32.2
100	19.8	19.1	44.3	56.8	24.5	37.7	42.3	54.8	22.5	35.7	27.8	41.7	24.8	39.7	20.1	30.6
155	25.2	24	41.4	53.7	16.3	29.7	39.4	51.7	14.3	27.7	24	37.7	21	35.7	18.8	29.2
200	29	27.3	39.8	52	10.8	24.7	37.8	50	8.8	22.7	21.8	35.4	18.8	33.4	18	28.3
250	32.8	30.7	38.3	50.4	5.5	19.7	36.3	48.4	3.5	17.7	19.8	33.4	16.8	31.4	17.3	27.6
300		33.7		49.1		15.4		47.1		13.4		31.8		29.8		27
350		36.6		48		11.4		46		9.4		30.4		28.4		26.5
400		39.2		47.1		7.9		45.1		5.9		29.2		27.2		26.1
500		44		45.5		1.5		43.5		NS		27.2		25.2		25.3

THIS CABLE SHALL BE COMPLIANT TO TIA-568.2 FOR CATEGORY 6.



OCC-UE64PLM-09	ORANGE
OCC-UE64PLM-08	VIOLET
OCC-UE64PLM-07	WHITE
OCC-UE64PLM-06	GRAY
OCC-UE64PLM-05	BLUE
OCC-UE64PLM-04	GREEN
OCC-UE64PLM-03	RED
OCC-UE64PLM-02	BLACK
OCC-UE64PLM-01	YELLOW
OCC PART NUMBER	JACKET COLOR
CABLE COLOR TABLE	