SPECIFICATIONS

 DESCRIPTION: CATEGORY 6 CABLE, CONSISTING OF 4 PAIRS, 23 AWG, UNSHIELDED WITH A PVC JKT. CMR. c(UL)us TYPE FT4 PER UL 444.

 CONDUCTOR: 23 AWG SOLID BARE COPPER (.0224" NOM OD) INSULATION: POLYETHYLENE OR POLYOLEFIN .039" NOM OD, .0085" AVG WALL

3. **PAIRING:** COLOR CODED CONDUCTORS ARE TWISTED INTO PAIRS WITH VARYING 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 VARYING LAYS WITHIN THE OUTER JACKET WITH A TAPE SEPARATOR.

5. **OVERALL JACKET:** LOW SMOKE PVC, SEE COLOR TABLE FOR CABLE COLOR. .220" NOM OD

A RIPCORD IS PULLED IN UNDER JACKET

 MARKING: THE CABLE IS TO BE MARKED WITH THE FOLLOWONG PRINT LEGEND: OCC (occfiber.com) CATEGORY 6 - 4PR/23 c(UL)us CMR - FT4 -COMPLIANT TO CAT6 TIA/EIA-568-C.2 - Z/YY(XXXX)-Mx-R#-NNNN

WHERE: Z = MONTH OF MANUFACTURE YY = YEAR OF MANUFACTURE XXXX = JOB NUMBER x = RESPOOL MACHINE # # = MASTER REEL #

NNNN = SEQUENTIAL FOOTAGE MARKERS

ALTERNATE MARKING: OCC (occfiber.com) -A-# **** FEET CAT 6 CMR (UL) C(UL) 4 PR 23 AWG --- VERIFIED (UL) CAT 6 --- ## ## #######

WHERE # = PLANT ID LETTER ("L", "J", OR "F")

**** = SEQUENTIAL FOOTAGE MARK FÓLLOWED BY "FEET"

##-## = MONTH - YEAR

####### = TRACEABILITY CODE (eg. 241425J2 WHERE 24 = DAY OF MONTH, 1425 = 02:25 PM IN MILITARY TIME, J2 = JACKETING LINE #2)

NOTE: ADDITIONAL ALTERNATE MARKING(S) MAY BE ACCEPTABLE WITH PRIOR OCC ENGINEERING APPROVAL.

7. AGENCY APPROVAL: UNDERWRITERS LABORATORIES. INC. TYPE CMR, COMMUNICATIONS RISER CABLE, LISTED AS BEING SUITABLE FOR USE IN VERTICLE RUN IN A SHAFT OR FROM FLOOR TO FLOOR PER UL 444. ALSO LISTED AS HAVING ADEQUATE FIRE-RESISTANT CHARACTERISTICS CAPABLE OF PREVENTING THE CARRYING OF FIRE FROM FLOOR TO FLOOR, IN ACCORDANCE WITH ARTICLE 800 OF THE NATIONAL ELECTRICAL CODE.

8. CATEGORY 6 WORST CASE ELECTRICAL CHARACTERISTICS*:

CHARACTERISTIC IMPEDANCE: 100 \pm 15 Ω (1 TO 250 MHz.) MAXIMUM CONDUCTOR RESISTANCE: 8.9 Ω /100 METERS @ 20°C

MAXIMUM RESISTANCE UNBALANCED: 5%

MAXIMUM MUTUAL CAPACITANCE: 5.6 nF/100 METERS @ 1kHz.

MAXIMUM CAPACITANCE UNBALANCED: 330 pF/100 METERS
MAXIMUM DELAY SKEW: 45 ns/100 METERS

NOMINAL VELOCITY OF PROPAGATION: 68%

NOTICE: SPECIFICATIONS CONTINUED AT RIGHT.

"OPTICAL CABLE CORPORATION (OCC) RESERVES THE RIGHT TO REVISE ANY COPPER CABLE SPECIFICATIONS."

REVISION HISTORY									
RE\	/SHT	DESCRIPTION	DATE	ECN	CHECKED				
Α	ALL	RELEASE NEW	7/14/11	NEW	SV				

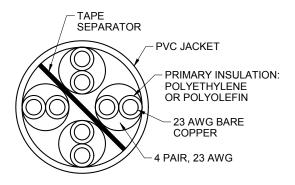
ELECTRICAL PERFORMANCE

FREQUENCY	INSERTION LOSS MAX	' '		ACR MIN. (dB/100 m)		ACRF MIN. (dB/100 m)		RETURN LOSS MIN.	DELAY MAX
(MHz.)	(dB/100 m)			WP	PS	WP PS		(dB/100 m)	
0.772	(dB/ 100 III)	76.0	74.0	V V I		70.0	67.0	(05/100111)	(113/100 111)
1.0	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0	570
4.0	3.8	65.3	63.3	61.5	59.3	55.7	52.8	23.0	552
8.0	5.3	60.8	58.8	55.4		49.7	46.7	24.5	547
					53.4				
10.0	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0	545
16.0	7.6	56.2	54.2	48.7	46.7	43.7	40.7	25.0	543
20.0	8.5	54.8	52.8	46.3	44.3	41.7	38.8	25.0	542
25.0	9.5	53.3	51.3	43.8	41.8	39.8	36.8	24.3	541
31.25	10.7	51.9	49.9	41.2	39.2	37.9	34.8	23.6	540
62.5	15.4	47.4	45.4	32.0	29.9	31.8	28.9	21.5	539
100.0	19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1	538
155.0	25.2	41.4	39.4	16.3	14.3	24.0	21.0	18.8	537
200.0	29.0	39.8	37.8	10.8	8.8	21.8	18.8	18.0	537
250.0	32.8	38.3	36.3	5.5	3.5	19.8	16.8	17.3	536
300.0	36.4	37.1	35.1			18.3	15.3	16.8	536
350.0	39.8	36.1	34.1			16.9	13.9	16.3	536
400.0	43.0	35.3	33.3			15.8	12.8	15.9	536
500.0	48.9	33.8	31.8			13.8	10.8	15.2	536

THIS CABLE SHALL BE COMPLIANT TO TIA/EIA-568-C.2 FOR CATEGORY 6.

SPECIFICATIONS (CONTINUED)

- * DISCRETE VALUES ARE FOR INFORMATION ONLY. EQUATIONS FOR SWEPT 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



CABLE COLOR TABLE

OCC-UE64R-01	YELLOW
OCC-UE64R-05	BLUE
OCC-UE64R-07	WHITE
OCC PART NUMBER	JACKET COLOR

UNCONTROLLED COPY

THE DESCRIPTION OF THE PROPERTY OF THE PROPERT

		TOLERANCES: FRACTIONS ±1/32" ANGLES ±1/2°	PROPERTY O MAY NOT BE OR SALE WIT	F OPTICAL CABLI USED AS THE BA HOUT SPECIFIC V CABLE CORPORA	E CORPO SIS FOR VRITTEN TION.	PRATION AND MANUFACTURE PERMISSION		<u>e</u> (St Ph Fa	3 Superior Way wannanoa, NC hone: 828-298- ax: 828-298-248 ww.occfiber.coi	28778 -2260 87
	THIRD ANGLE PROJECTION	MATERIAL SEE NOTES AND TABLES	CHECKED	J.YANIK S.VADEN	DATE	7/14/11 7/14/11	DWG TIT	. –	BLE, CAT			
- 1		OLE NOTEONING TABLES	ENGINEER	J.YANIK	DATE	7/14/11			, RISER,	,	,	,
	CRITICAL DIMENSION CODE	1 11 11 01 1	APPROVED	S.VADEN	DATE	7/14/11	SIZE	DWG NO.	C11	70	2	REV
	(F) = FUNCTION (M) = MATING	SEE NOTES AND TABLES	PREVIOUS [DWG			В		611	U / O	J	Α
	(A) = AUDIT		NEXT DWG		FILENAME C110783		A.DFT	SCALE:	NONE	SHEET	1 OF 1	