

SPECIFICATIONS

1. **DESCRIPTION:** CATEGORY 6 HIGH PERFORMANCE CABLE, CONSISTING OF 4 PAIRS, 23 AWG, UNSHIELDED WITH A PVC JACKET. c(UL)us CMR. PACKAGING TYPE: BOX

2. **CONDUCTOR:** 23 AWG SOLID BARE COPPER (.0224" NOM OD)
INSULATION: POLYOLEFIN .038" - .042" NOM OD, .0078" - .0096" 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 AROUND AN ISOLATOR WITH A LEFT HAND LAY.

5. **OVERALL JACKET:** PVC LF, SEE COLOR TABLE FOR CABLE COLOR.
 .227" NOM OD
 .020" AVERAGE WALL THICKNESS

6. **MARKING:** THE CABLE IS IDENTIFIED WITH THE FOLLOWING PRINT LEGEND:
 OCC (WWW.OCCFIBER.COM) P/N OCC-U64HR --- ETL VERIFIED
 CATEGORY 6, 4 PR 23 AWG CMR C(UL)US OCCV E322888 MADE IN USA
 MYLLDDS XXXXX FT

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

7. **AGENCY APPROVAL:** UNDERWRITERS LABORATORIES, INC. TYPE CMR COMMUNICATIONS RISER CABLE LISTED AS BEING SUITABLE FOR USE IN A VERTICAL RUN IN A SHAFT OR FROM FLOOR TO FLOOR. ALSO LISTED AS HAVING 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. **ELECTRICAL CHARACTERISTICS*:**

CHARACTERISTIC IMPEDANCE:	100Ω
MAXIMUM CONDUCTOR RESISTANCE:	8.00 Ω/100 METERS
MAXIMUM RESISTANCE UNBALANCED:	5%
MAXIMUM MUTUAL CAPACITANCE:	5.6nF/100 METERS @ 1kHz.
MAXIMUM DELAY SKEW:	45 ns
NOMINAL VELOCITY OF PROPAGATION:	69%
INSTALLATION TEMPERATURE RANGE:	0°C +60°C
OPERATING TEMPERATURE RANGE:	-20°C +60°C

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

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

ELECTRICAL PERFORMANCE TRANSMISSION SPECIFICATIONS

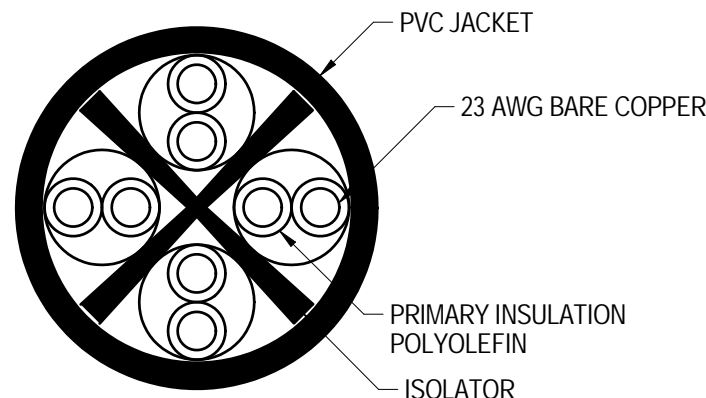
TIA-568-C.2 CATEGORY 6 VERIFIED
 ISO/IEC 11801, 2ND ED. CLASS E COMPLIANT

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

UNCONTROLLED COPY

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	92	72.3	90.3	72.3	89	70.3	87.3	67.8	85.1	64.8	82.1	20	32
4	3.8	3.6	65.3	82.3	61.5	78.7	63.3	79.3	59.5	75.7	55.8	72.6	52.8	69.6	23	30
8	5.3	5.1	60.8	77.5	55.4	72.3	58.8	74.5	53.4	69.3	49.7	66.4	46.7	63.4	24.5	34.3
10	6	5.8	59.3	75.9	53.3	70.1	57.3	72.9	51.3	67.1	47.8	64.4	44.8	61.4	25	34.9
16	7.6	7.4	56.2	72.6	48.7	65.3	54.2	69.6	46.7	62.3	43.7	60.2	40.7	57.2	25	35.2
20	8.5	8.3	54.8	71.1	46.3	62.8	52.8	68.1	44.3	59.8	41.8	58.2	38.8	55.2	25	35
25	9.5	9.3	53.3	69.5	43.8	60.2	51.3	66.5	41.8	57.2	39.8	56.1	36.8	53.1	24.3	36.1
31.25	10.7	10.4	51.9	67.9	41.2	57.5	49.9	64.9	39.2	54.5	37.9	54.1	34.9	51.1	23.6	35.5
62.5	15.4	15	47.4	63.1	32	48.1	45.4	60.1	30	45.1	31.9	47.9	28.9	44.9	21.5	33.2
100	19.8	19.1	44.3	59.8	24.5	40.7	42.3	56.8	22.5	37.7	27.8	43.7	24.8	40.7	20.1	31.6
155	25.2	24	41.4	56.7	16.3	32.8	39.4	53.7	14.3	29.8	24	39.7	21	36.7	18.8	30.2
200	29	27.3	39.8	55	10.8	27.6	37.8	52	8.8	24.6	21.8	37.4	18.8	34.4	18	29.3
250	32.8	30.7	38.3	53.4	5.5	22.7	36.3	50.4	3.5	19.7	19.8	35.4	16.8	32.4	17.3	28.6
300		33.7		52.1		18.4		49.1		15.4		33.8		30.8		28
350		36.6		51		14.5		48		11.5		32.4		29.4		27.5
400		39.2		50.1		10.9		47.1		7.9		31.2		28.2		27.1
500		44		48.5		4.6		45.5		1.6		29.2		26.2		26.3
550		46.2		47.9		1.7		44.9		NS		28.3		25.3		26
650		50.4		46.7		NS		43.7		NS		26.8		23.8		25.4

*FREQUENCIES BEYOND THE TIA AND ISO REQUIREMENTS ARE FOR INFORMATION ONLY. ALL VALUES ARE dB/100 METERS.



CABLE COLOR TABLE

OCC-U64HR-01	YELLOW
OCC-U64HR-05	BLUE
OCC-U64HR-07	WHITE
OCC PART NUMBER	JACKET COLOR

THIRD ANGLE PROJECTION 	CRITICAL DIMENSION CODE (F) = FUNCTION (M) = MATING (A) = AUDIT	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES: FRACTIONS ±1/32" ANGLES ±1/2° 3 PLACE DECIMALS ±.005" 2 PLACE DECIMALS ±.01"	THIS DRAWING AND THE DESIGN SHOWN ARE THE PROPERTY OF OPTICAL CABLE CORPORATION AND MAY NOT BE USED AS THE BASIS FOR MANUFACTURE OR SALE WITHOUT SPECIFIC WRITTEN PERMISSION OF OPTICAL CABLE CORPORATION.	33 Superior Way Swannanoa, NC 28778 Phone: 828-298-2260 Fax: 828-298-2487 www.occfiber.com
		MATERIAL SEE NOTES AND TABLES	FINISH SEE NOTES AND TABLES	DWG TITLE CABLE, CAT6, 23AWG, 4PR, UNSHIELDED, RISER, CMR, HIGH PERFORMANCE
DRAWN D.A.HOLBERT DATE 8/20/12		CHECKED J.HOWE DATE 8/21/12		SCALE: NONE
ENGINEER J.YANIK DATE 8/20/12		APPROVED J.CALLOWAY DATE 7/22/15		SHEET 1 OF 1
PREVIOUS DWG		NEXT DWG		FILENAME C111307C.DFT