

SPECIFICATIONS

- DESCRIPTION:** CATEGORY 6A CABLE, CONSISTING OF 4 PAIRS, 23 AWG, UNSHIELDED WITH A PVC JACKET. CMR, c(UL)us TYPE FT4 PER UL 444.
- CONDUCTOR:** 23 AWG SOLID BARE COPPER (.0241" NOM OD)
INSULATION: POLYOLEFIN .041" - .046" NOM OD, .0107" AVG WALL
- PAIRING:** COMPONENTS ARE TWISTED INTO PAIRS WITH VARYING LEFT HAND LAYS TO MINIMIZE CROSSTALK.

PAIR #	COLOR
1	WHT PAIRED WITH BLU
2	WHT PAIRED WITH ORG
3	WHT PAIRED WITH GRN
4	WHT PAIRED WITH BRN
- CABLING:** THE FOUR (4) TWISTED PAIRS ARE CABLED AROUND A STAR OR T-TOP CROSS WEB FILLER/SEPARATOR WITH A LEFT HAND LAY.
- OVERALL JACKET:** PVC LF SEE COLOR TABLE FOR CABLE COLOR
.330" -.340" NOM OD
.025" AVG WALL
A RIPCORD IS PULLED IN UNDER JACKET
- MARKING:** THE CABLE IS IDENTIFIED WITH THE FOLLOWING PRINT
LEGEND: **OCC (www.occfiber.com)** CATEGORY 6A --- 4PR/23 c(UL)us CMR - FT4 - COMPLIANT TO TIA-568-C.2 - Z/YY (XXXX) - Mx - R# - NNNN
WHERE Z = MONTH OF MFG.
YY = YEAR OF MFG.
XXXX = JOB NUMBER
x = RESPOOL MACHINE #
= MASTER REEL #
NNNN = SEQUENTIAL FOOTAGE MARKERS

ALTERNATE MARKING: OCC (www.occfiber.com)-A-# ** FEET CATEGORY 6A 4 PR/23 AWG UTP RISER CABLE 4001142 C(ETL)US CMR 75C --- VERIFIED BY UND LAB INC ONLY TO TIA 568-C.2 CAT 6A --- ##-##-#####**
WHERE # = PLANT ID LETTER ("L", "J", OR "F")
**** = SEQUENTIAL FOOTAGE MARK FOLLOWED BY "FEET"
##-## = MONTH - YEAR
= TRACEABILITY CODE (eg. 241425J2 WHERE 24 = DAY OF MONTH, 1425 = 02:25 PM IN MILITARY TIME, J2 = JACKETING LINE #2)

7. AGENCY APPROVAL: UNDERWRITERS LABORATORIES, INC. TYPE CMR, COMMUNICATIONS RISER CABLE, LISTED AS BEING SUITABLE FOR USE IN VERTICAL RUN IN A SHAFT, OR FROM FLOOR TO FLOOR PER UL 444. 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. TYPICAL CATEGORY 6A ELECTRICAL CHARACTERISTICS*:
CHARACTERISTIC IMPEDANCE: 100 ± 15 Ω (1 TO 500 MHz.)
MAXIMUM CONDUCTOR RESISTANCE: 9.38 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

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

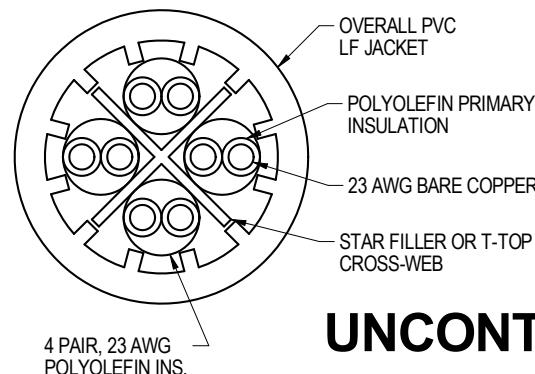
9. PRODUCT APPROVAL REQUIRES CERTIFICATION OF COMPLIANCE TO E.U. RoHS DIRECTIVE 2002/95/EC

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

REVISION HISTORY				
REV	SHT	DESCRIPTION	DATE	CHECKED
A	ALL	RELEASE NEW	9/15/08	JFM
B	-	CHANGED TO OCC IN PRINT LEGEND	7/03/09	JFM
C	-	CHANGED TO OCC P/N AND UPDATED DATA TABLE	3/26/10	DFS
D	-	UPDATED SPECIFICATIONS	7/17/10	SV

ELECTRICAL PERFORMANCE

Frequency (MHz.)	Insertion Loss max dB/100 meters	NEXT Loss Min. (dB)	ACR Min. (dB)	PSACR Min. (dB)	PSNEXT Loss Min. (dB)	ACR-F Min. (dB)	PSACRF Min. (dB)	Return Loss Min. (dB)	Propagation Delay Max. (ns)	Delay Skew Max. (ns)	*TCL Min. (dB)	*ELTCTL Min. (dB)	PSANEXT Loss Min. (dB)	PSAACRF Loss Min. (dB)
1	2.1	74.3	72.2	70.2	72.3	67.8	64.8	20	570	45	40	35	67	67
4	3.8	65.3	61.5	59.5	63.3	55.8	52.8	23	552	45	40	23	67	66.2
8	5.3	60.8	55.5	53.5	58.8	49.7	46.7	24.5	547	45	40	16.9	67	60.1
10	5.9	59.3	53.4	51.4	57.3	47.8	44.8	25	545	45	40	15	67	58.2
16	7.5	56.2	48.7	46.7	54.2	43.7	40.7	25	543	45	38	10.9	67	54.1
20	8.4	54.8	46.4	44.4	52.8	41.8	38.8	25	542	45	37	9	67	52.2
25	9.4	53.3	43.9	41.9	51.3	39.8	36.8	24.3	541	45	36	7	67	50.2
31.25	10.5	51.9	41.4	39.4	49.9	37.9	34.9	23.6	540	45	35.1	5.5	67	48.3
62.5	15.0	47.4	32.4	30.4	45.4	31.9	28.9	21.5	539	45	32	-	65.6	42.3
100	19.1	44.3	25.2	23.2	42.3	27.8	24.8	20.1	538	45	30	-	62.5	38.2
200	27.6	39.8	12.2	10.2	37.8	21.8	18.8	18	537	45	27	-	58	32.2
250	31.1	38.3	7.2	5.2	36.3	19.8	16.8	17.3	536	45	26	-	56.5	30.2
300	34.3	37.1	2.8	0.8	35.1	18.3	15.3	16.8	536	45	25.2	-	55.3	28.7
400	40.1	35.3	-	-	33.3	15.8	12.8	15.9	536	45	24	-	53.5	26.2
500	45.3	33.8	-	-	31.8	13.8	10.8	15.2	536	45	23	-	52	24.2



CABLE COLOR TABLE

OCC-U6A4R-01	YELLOW
OCC-U6A4R-05	BLUE
OCC-U6A4R-07	WHITE
OCC PART NUMBER	JACKET COLOR

UNCONTROLLED COPY

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

OCC
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THIRD ANGLE PROJECTION	MATERIAL SEE NOTES AND TABLES	CHECKED J.MALTAIS	DATE 11/14/08	DWG TITLE CABLE, CAT6A, 23 AWG, 4 PR, UNSHIELDED, RISER, CMR	SIZE B	DWG NO. C109151	REV D
CRITICAL DIMENSION CODE (F) = FUNCTION (M) = MATING (A) = AUDIT	FINISH SEE NOTES AND TABLES	ENGINEER J.YANIK	DATE 9/15/08				
		DRAWN D.A.HOLBERT	DATE 9/15/08				
		APPROVED S.VADEN	DATE 5/20/11				
		PREVIOUS DWG					
		NEXT DWG	FILENAME C109151D.dwg	SCALE: NONE	SHEET 1 OF 1		