

SPECIFICATIONS

- DESCRIPTION:** CATEGORY 5e, POWER SUM CABLE CONSISTING OF 4 PAIRS, 24 AWG, UNSHIELDED WITH A LOW SMOKE PVC JACKET. c(UL)us CMP PER UL 444. PACHAGING TYPE: BOX
- CONDUCTOR:** 24 AWG SOLID BARE COPPER (.0201" NOM OD) INSULATION: FEP .035" NOM OD, .0072" AVG WALL
- PAIRING:** COMPONENTS ARE TWISTED INTO PAIRS WITH VARYING LEFT HAND LAYS TO MINIMIZE CROSSTALK. FOUR PAIRS ARE THEN CABLED TOGETHER USING A LEFT HAND LAY.

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
- OVERALL JACKET:** LOW SMOKE PVC, SEE COLOR TABLE FOR CABLE COLOR .175" NOM OD .016" AVG WALL THICKNESS
- MARKING:** OCC (WWW.OCCFIBER.COM) P/N OCC-U5E4PLM --- ETL VERIFIED CATEGORY 5e 4 PR 24 AWG CMP C(UL)US OCCV E322888 MADE IN USA MYLLDDS XXXXX FT

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

6. 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 PER UL 444. ALSO LISTED AS HAVING ADEQUATE FIRE-RESISTANT AND LOW SMOKE-PRODUCING CHARACTERISTICS, IN ACCORDANCE WITH ARTICLE 800 OF THE NATIONAL ELECTRICAL CODE.

- 7. ELECTRICAL CHARACTERISTICS*:**
- CHARACTERISTIC IMPEDANCE: 100 ± 15Ω
 - MAXIMUM CONDUCTOR RESISTANCE: 28.6 Ω/1000 FEET
 - MAXIMUM RESISTANCE UNBALANCED: 5%
 - NOMINAL CAPACITANCE: 14 pF/FOOT
 - MAXIMUM DELAY SKEW: 15 ns/100 METERS
 - NOMINAL VELOCITY OF PROPOGATION: 74%
 - INSTALLATION TEMPERATURE RANGE: 0°C +60°C
 - OPERATING TEMPERATURE RANGE: -20°C +60°C

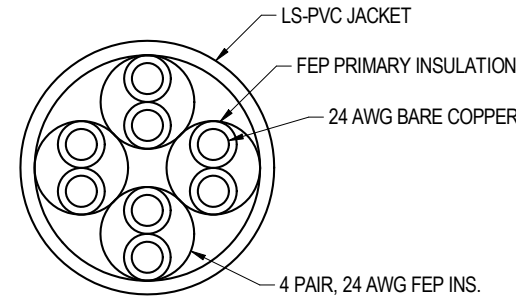
* FREQUENCIES BEYOND TIA AND ISO REQUIREMENTS ARE FOR INFORMATION ONLY. DISCRETE VALUES ARE FOR INFORMATION ONLY. EQUATIONS FOR SWEEPED FREQUENCIES GOVERN LIMITS. VERIFIED TO MEET CAT 5e TIA-568-C.2 PERFORMANCE REQUIREMENTS PER THE VERIFICATION REQUIREMENTS DEFINED IN SUPPLIERS UL/ETL FILE.

8. 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)		ELFEXT MIN. (dB)		RETURN LOSS MIN. (dB)	DELAY MAX (ns)
		WP	PS	WP	PS	WP	PS		
1.0	2.0	65.3	62.3	63.3	60.3	63.8	60.8	20.0	570
4.0	4.1	56.3	53.3	52.2	49.2	51.8	48.8	23.0	552
8.0	5.8	51.8	48.8	46.0	43.0	45.7	42.7	24.5	547
10.0	6.5	50.3	47.3	43.8	40.8	43.8	40.8	25.0	545
16.0	8.2	47.2	44.2	39.0	36.0	39.7	36.7	25.0	543
20.0	9.3	45.8	42.8	36.5	33.5	37.8	34.8	25.0	542
25.0	10.4	44.3	41.3	33.9	30.9	35.8	32.8	24.3	541
31.25	11.7	42.9	39.9	31.2	28.2	33.9	30.9	23.6	540
62.5	17.0	38.4	35.4	21.4	18.4	27.9	24.9	21.5	539
100.0	22.0	35.3	32.3	13.3	10.3	23.8	20.8	20.1	538
155.0	28.1	32.4	29.4	4.3	1.3	20.0	12.0	18.8	537
200.0	32.4	30.8	27.8	-	-	-	14.8	18.0	537
250.0	36.9	29.3	26.3	-	-	-	12.8	17.3	536
300.0	40.5	29.1	25.1	-	-	-	11.3	16.5	536
350.0	44.3	28.1	24.1	-	-	-	9.9	16.3	536

THE CABLE IS SWEEPED TESTED THROUGH 350 MHz. THIS CABLE MEETS INTERNATIONAL REQUIREMENTS FOR NON-FITTED INPUT IMPEDANCE

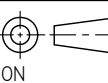



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CABLE COLOR TABLE

OCC-U5E4PLM-01	YELLOW
OCC-U5E4PLM-05	BLUE
OCC-U5E4PLM-07	WHITE
OCC PART NUMBER	JACKET COLOR

THIRD ANGLE PROJECTION 	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	DRAWN D.A.HOLBERT CHECKED J.MALTAIS ENGINEER J.YANIK	DATE 9/10/08 DATE 11/14/08 DATE 9/10/08	
CRITICAL DIMENSION CODE (F) = FUNCTION (M) = MATING (A) = AUDIT	FINISH SEE NOTES AND TABLES	APPROVED S.VADEN PREVIOUS DWG	DATE 3/28/12	SIZE B DWG NO. C109088 REV G
		NEXT DWG	FILENAME C109088G.dft	SCALE: NONE SHEET 1 OF 1