

SPECIFICATIONS

- DESCRIPTION:** CATEGORY 6 CABLE, CONSISTING OF 4 PAIRS, 23 AWG , SHIELDED WITH A LOW SMOKE PVC JACKET. c(UL)us, CMR.
- CONDUCTOR:** 23 AWG SOLID BARE COPPER (.0221" NOM OD)
INSULATION: HDPE .041" NOM OD, .0094" AVG WALL
- 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
- CABLING:** THE FOUR (4) TWISTED PAIRS ARE CABLED AROUND A STAR FILLER WITH A LEFT HAND LAY AND WRAPPED WITH A POLYESTER TAPE AND A 24 AWG SOLID TC DRAIN WIRE. AN ALUMINUM/POLYESTER TAPE IS APPLIED OVERALL (ALUMINUM SIDE IN). (25% ± 10% OVERLAP ON TAPE).
- OVERALL JACKET:** LOW SMOKE, FLAME RETARDENT PVC - SEE COLOR TABLE FOR CABLE COLOR
.288" NOM OD
.020" AVG WALL
- MARKING:** THE CABLE IS IDENTIFIED WITH THE FOLLOWING PRINT
LEGEND: OCC (WWW.OCCFIBER.COM) P/N OCC-FTP64R --- ETL
VERIFIED CATEGORY 6, 4 PR 23 AWG CMR C(UL)US OCCV
E322888 MADE IN USA MYLLDDS XXXX FT

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

- 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 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.

- TYPICAL CATEGORY 6 ELECTRICAL CHARACTERISTICS:**

CHARACTERISTIC IMPEDANCE:	100 Ω
MAXIMUM CONDUCTOR RESISTANCE:	9.38 Ω/100 METERS @ 20°C
MAXIMUM RESISTANCE UNBALANCED:	5%
MAXIMUM MUTUAL CAPACITANCE:	5.6 nF/100 METERS @ 1kHz.
NOMINAL VELOCITY OF PROPAGATION (NVP):	69%
MAXIMUM DELAY SKEW:	45 ns/100 METERS

- PHYSICAL DATA:** TEMPERATURE RATING: OPERATION: -20 TO +60 CELSIUS
INSTALLATION: 0 TO +60 CELSIUS

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

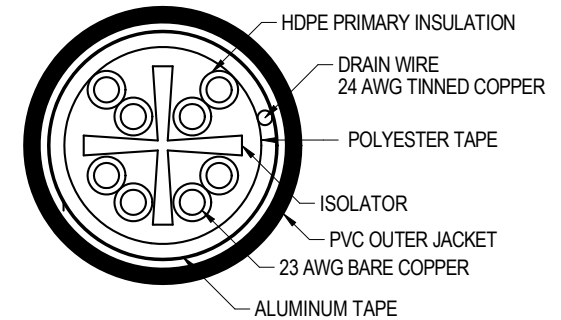
"OPTICAL CABLE CORPORATION (OCC) RESERVES THE RIGHT TO REVISE ANY CABLE SPECIFICATIONS."

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ELECTRICAL PERFORMANCE

FREQUENCY (MHz.)	INSERTION LOSS MAX (dB/100 m)	NEXT LOSS MIN (dB)		ACR MIN. (dB)		ACRF MIN. (dB)		RETURN LOSS MIN. (dB)
		WP	PS	WP	PS	WP	PS	
1	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0
4	3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.0
8	5.3	60.8	58.8	55.5	53.4	49.7	46.7	24.5
10	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0
16	7.6	56.2	54.2	48.7	46.6	43.7	40.7	25.0
20	8.5	54.8	52.8	46.3	44.3	41.8	38.8	25.0
25	9.5	53.3	51.3	43.8	41.8	39.8	36.8	24.3
31	10.7	51.9	49.9	41.2	39.2	37.9	34.9	23.6
63	15.4	47.4	45.4	32.0	30.0	31.9	28.9	21.5
100	19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1
155	25.2	41.4	39.4	16.3	14.3	24.0	21.0	18.8
200	29.0	39.8	37.8	10.8	8.8	21.8	18.8	18.0
250	32.8	38.3	36.3	5.5	3.5	19.8	16.8	17.3

DISCRETE VALUES ARE FOR INFORMATION ONLY. EQUATIONS FOR SWEEP FREQUENCIES GOVERN LIMITS VERIFIED TO MEET LATEST DRAFT OF ANSI/TIA 568.2 CAT 6 REQUIREMENTS.



4 PR, 23 AWG HDPE INSULATION

CABLE COLOR TABLE

OCC-FTP64R-01	YELLOW
OCC-FTP64R-05	BLUE
OCC-FTP64R-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 DATE 11/28/18 CHECKED J.HOWE DATE 12/02/18 ENGINEER J.YANIK DATE 11/28/18 APPROVED D.INGLE DATE 12/02/18 PREVIOUS DWG NEXT DWG	DWG TITLE CABLE, CAT 6, 23 AWG, 4 PR, SHIELDED, RISER, CMR	
CRITICAL DIMENSION CODE (F) = FUNCTION (M) = MATING (A) = AUDIT	FINISH SEE NOTES AND TABLES	SIZE B	DWG NO. C113179	REV A
		FILENAME C113179A.dft	SCALE: NONE	SHEET 1 OF 1