

SPECIFICATIONS

- DESCRIPTION:** CATEGORY 6 CABLE, CONSISTING OF 4 PAIRS, 24 AWG, UNSHIELDED, WATERPROOF GEL FILLED, OUTSIDE PLANT PACKAGING TYPE: REEL
- CONDUCTOR:** 24 AWG SOLID BARE COPPER
INSULATION: POLYOLEFIN
- PAIRING:** COMPONENTS 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 |
- CABLING:** THE FOUR (4) TWISTED PAIRS ARE CABLED AROUND A POLYOLEFIN TAPE SEPARATOR TO FORM ROUND CORE.
- OVERALL JACKET:** UV RESISTANT BLACK POLYETHYLENE
NOM OD 0.26"
AVERAGE WALL THICKNESS: .026"
- FLOODING COMPOUND:** WATERPROOF GEL
- MARKING:** THE CABLE IS IDENTIFIED WITH THE FOLLOWING PRINT LEGEND:
OCC (WWW.OCCFIBER.COM) P/N OCC-U64OSP --- CATEGORY 6, 4 PR 24 AWG OCCV MADE IN USA MYLLDDS XXXXX FT

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

- STANDARDS:** ETL VERIFIED ANSI/TIA-568-C.2 CAT 6
CENELEC EN 50288-6-1
ISO/IEC 11801 CLASS E
RoHS COMPLIANT
- CATEGORY 6 WORST CASE ELECTRICAL CHARACTERISTICS*:**

| | |
|----------------------------------|---------------------------|
| CHARACTERISTIC IMPEDANCE: | 100 Ω |
| MAXIMUM DC RESISTANCE: | 9.38 Ω/100 METERS |
| MAXIMUM RESISTANCE UNBALANCED: | 5% |
| MAXIMUM CAPACITANCE: | 6.0 nF/100 METERS @ 1kHz. |
| VOLTAGE RATING: | 80 V |
| MAXIMUM DELAY SKEW: | 45 ns/100 METERS |
| NOMINAL VELOCITY OF PROPAGATION: | 65 % OF LIGHT SPEED |
| STORAGE TEMPERATURE RANGE: | N/A |
| INSTALLATION TEMPERATURE RANGE: | -30°C +70°C |
| OPERATING TEMPERATURE RANGE: | -40°C +70°C |

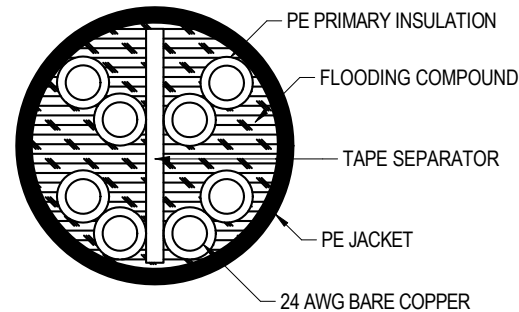
UV RESISTANT
SUITABLE FOR DIRECT BURIAL OR AERIAL LASHING

- 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 | | |
| 0.772 | --- | 76.0 | 74.0 | --- | --- | 70.0 | 67.0 | --- | --- |
| 1 | 2.0 | 74.3 | 72.3 | 72.3 | 70.3 | 67.8 | 64.8 | 20.0 | 570 |
| 4 | 3.8 | 65.3 | 63.3 | 61.5 | 59.3 | 55.7 | 52.8 | 23.0 | 552 |
| 8 | 5.3 | 60.8 | 58.8 | 55.4 | 53.4 | 49.7 | 46.7 | 24.5 | 547 |
| 10 | 6.0 | 59.3 | 57.3 | 53.3 | 51.3 | 47.8 | 44.8 | 25.0 | 545 |
| 16 | 7.6 | 56.2 | 54.2 | 48.7 | 46.7 | 43.7 | 40.7 | 25.0 | 543 |
| 20 | 8.5 | 54.8 | 52.8 | 46.3 | 44.3 | 41.7 | 38.8 | 25.0 | 542 |
| 25 | 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 | 19.8 | 44.3 | 42.3 | 24.5 | 22.5 | 27.8 | 24.8 | 20.1 | 538 |
| 155 | 25.2 | 41.4 | 39.4 | 16.3 | 14.3 | 24.0 | 21.0 | 18.8 | 537 |
| 200 | 29.0 | 39.8 | 37.8 | 10.8 | 8.8 | 21.8 | 18.8 | 18.0 | 537 |
| 250 | 32.8 | 38.3 | 36.3 | 5.5 | 3.5 | 19.8 | 16.8 | 17.3 | 536 |

THIS CABLE SHALL BE COMPLIANT TO TIA-568-C.2 FOR CATEGORY 6.
* DISCRETE VALUES ARE FOR INFORMATION ONLY. EQUATIONS FOR SWEPT FREQUENCIES GOVERN LIMITS. CERTIFIED TO MEET CAT 6 TIA-568-C.2 BY INTERTEK/ETL FOR TRANSMISSION PERFORMANCE *



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CABLE COLOR TABLE

| | |
|-----------------|--------------|
| OCC-U64OSP | BLACK |
| 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 1/21/15 | CHECKED D. Stikeleather DATE 1/22/15 | DWG TITLE CABLE, CAT 6, 24 AWG, 4 PR, UNSHIELDED, OUTSIDE PLANT, BLACK | | |
| CRITICAL DIMENSION CODE (F) = FUNCTION (M) = MATING (A) = AUDIT | FINISH SEE NOTES AND TABLES | ENGINEER J.YANIK DATE 1/21/15 | APPROVED J.HOWE DATE 1/22/15 | SIZE B | DWG NO. C112127 | REV B |
| | | PREVIOUS DWG | NEXT DWG | FILENAME C112127B.dft | SCALE: NONE | SHEET 1 OF 1 |