

HITACHI CABLE MANCHESTER

Customer Specification

HCM - 48331/100

RFQ #: 32503

ITEM DESCRIPTION: HIGH DENSITY SCSI CABLE, CONSISTING OF 50 PAIRS, 28 AWG, DUAL SHIELDED WITH A PVC JACKET. CM, C(UL)

COMPONENT:

CONDUCTOR: 28 AWG 7/36 TINNED COPPER
.015" NOM OD

INSULATION: POLYOLEFIN
.028" NOM OD
.0065" AVG WALL

PAIRING:

COMPONENTS ARE TWISTED INTO PAIRS WITH VARYING LEFT HAND LAYS TO MINIMIZE CROSSTALK.

<u>PAIR #</u>	<u>COLOR</u>	<u>PAIR #</u>	<u>COLOR</u>
1	WHT-TAN+TAN-WHT	2	WHT-BRN+BRN-WHT
3	WHT-PNK+PNK-WHT	4	WHT-ORN+ORN-WHT
5	WHT-YEL+YEL-WHT	6	WHT-GRN+GRN-WHT
7	WHT-BLU+BLU-WHT	8	WHT-VIO+VIO-WHT
9	WHT-GRY+GRY-WHT	10	TAN-BRN+BRN-TAN
11	TAN-PNK+PNK-TAN	12	TAN-ORN+ORN-TAN
13	TAN-YEL+YEL-TAN	14	TAN-GRN+GRN-TAN
15	TAN-BLU+BLU-TAN	16	TAN-VIO+VIO-TAN
17	TAN-GRY+GRY-TAN	18	BRN-PNK+PNK-BRN
19	BRN-ORN+ORN-BRN	20	BRN-YEL+YEL-BRN
21	BRN-GRN+GRN-BRN	22	BRN-BLU+BLU-BRN

HITACHI CABLE MANCHESTER, INC. 900 Holt Avenue-East Industrial Park Manchester, N.H. 03109 (603) 669-4347	Drawn By: DSA Date: 03/25/98 Checked By: JS Date: 03/25/98 Issued By: MGR Date: 03/26/98	REV# C
	THIS PRODUCT MADE IN THE U.S.A.	
ITEM: 48331-0100-H00-XXX-000-S-01000-3175-00	PAGE 1 of 4 Approved By: Date:	

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COMPONENT:

CONDUCTOR: 28 AWG 7/36 TINNED COPPER
.015" NOM OD

INSULATION: POLYOLEFIN
.028" NOM OD
.0068" AVG WALL

PAIRING:

COMPONENTS ARE TWISTED INTO PAIRS WITH VARYING LEFT HAND LAYS TO MINIMIZE CROSSTALK.

<u>PAIR #</u>	<u>COLOR</u>	<u>PAIR #</u>	<u>COLOR</u>
1	BRN-VIO+VIO-BRN	2	BRN-GRY+GRY-BRN
3	PNK-ORN+ORN-PNK	4	PNK-YEL+YEL-PNK
5	PNK-GRN+GRN-PNK	6	PNK-BLU+BLU-PNK
7	PNK-VIO+VIO-PNK	8	PNK-GRY+GRY-PNK
9	ORN-YEL+YEL-ORN	10	ORN-GRN+GRN-ORN
11	ORN-BLU+BLU-ORN	12	ORN-VIO+VIO-ORN
13	ORN-GRY+GRY-ORN	14	YEL-GRN+GRN-YEL
15	YEL-BLU+BLU-YEL	16	YEL-VIO+VIO-YEL
17	YEL-GRY+GRY-YEL	18	GRN-BLU+BLU-GRN
19	GRN-VIO+VIO-GRN	20	GRN-GRY+GRY-GRN
21	BLU-VIO+VIO-BLU	22	BLU-GRY+GRY-BLU
23	VIO-GRY+GRY-VIO	24	WHT-RED+RED-WHT
25	WHT-BLK+BLK-WHT	26	TAN-RED+RED-TAN
27	TAN-BLK+BLK-TAN	28	BRN-RED+RED-BRN

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CABLING:

TWENTY-TWO (22) PAIRS ARE CABLED OVER TWENTY-EIGHT (28) PAIRS WITH A LEFT HAND LAY AND THEN WRAPPED WITH A FOAM POLYPROPYLENE TAPE. AN ALUMINUM/MYLAR TAPE IS APPLIED OVERALL (ALUMINUM SIDE OUT) AND A 28 AWG 7/36T DRAIN WIRE IS PULLED IN OVER THE TWO TAPES. 25% MIN OVERLAP ON BOTH TAPES.

BRAID SHIELD:

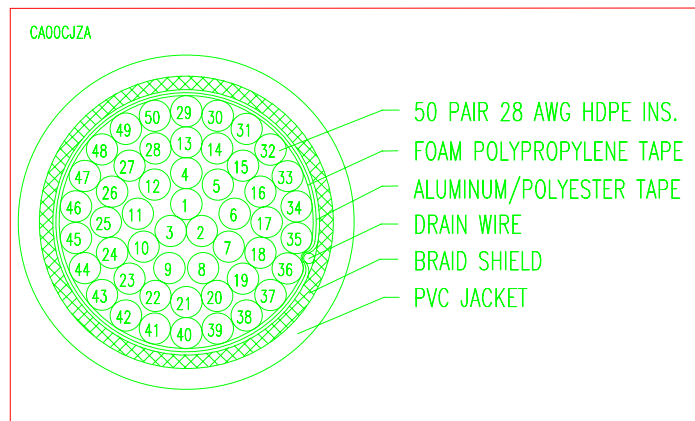
CONDUCTOR:

11 ENDS 36 AWG TINNED COPPER
85% MIN. COVERAGE

OVERALL JACKET:

PVC BLACK
.475" NOM OD
.031" AVG WALL

JACKET IS TO BE ROUND, SMOOTH AND TIGHT.



MARKING:

THE CABLE IS IDENTIFIED WITH THE FOLLOWING PRINT LEGEND:

HCM 48331 TYPE CM (UL) c(UL) 28 AWG 75C SHIELDED
- RoHS -- Z/YY (XXXX)

WHERE: Z = MONTH OF MFG.

YY = YEAR OF MFG.

XXXX = JOB NUMBER

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AGENCY APPROVALS:

UNDERWRITERS LABORATORIES, INC. TYPE CM CLASSIFIED COMMUNICATIONS CABLE FOR GENERAL PURPOSE COMMUNICATIONS USE WITH THE EXCEPTION OF RISERS AND PLENUMS, IN ACCORDANCE WITH ARTICLE 800 OF THE NATIONAL ELECTRIC CODE.

TYPICAL ELECTRICAL CHARACTERISTICS:

DIFFERENTIAL IMPEDANCE: 105 ± 10 OHMS
S. E. IMPEDANCE: 62 OHMS NOM
CAPACITANCE: 14 pF/FT NOM
TIME DELAY: 1.50 ns/FT NOM
DELAY SKEW: .045 ns/FT NOM
CONDUCTOR RESISTANCE: 67 OHMS/M' @ 20C

Rev	Revision	Date	By	Appvd	PAGE 4 of 4
A	UPDATED PRIMARY OD'S & TWIST LAYS	08/11/98	DSA	MG	
B	UPDATED SPEC FORMAT	07/19/06	ZD	PF	
C	UPDATED PRINT LEGEND	03/14/07	ZD	PF	