	APPLICATION .	REVISIONS							
QTY	NEXT ASSY	REV.	DESCRIPTION	DATE	BY	APPROVED			
		NC	Initial Release	5/17/99	D.	8PC			
1	•								

. NOTES: UNLESS OTHERWISE SPECIFIED



- TAG WITH "8050329 (APPL. DASH NO.) / (APPL. REV. LTR.)" AND APPLICABLE EIC SERIAL NUMBER.
- 2. SUBSTITUTE SUPPLIERS MAY BE USED AS LONG AS THE ITEMS MEET THE REQUIREMENTS DEFINED IN THE DESCRIPTION. SUBJECT TO APPROVAL BY CRYODYNAMICS ENGINEERING.
- 3. IDENTIFICATION OF THE APPROVED SOURCE(S) HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY OF THE ITEMS DESCRIBED ON THIS DRAWING.
- 4. CERTIFICATE OF CONFORMANCE TO BE PROVIDED.

REV NC NC NC NC

DEM CEATIE

- 5. CABLE SIZING TO BE IN ACCORDANCE WITH EIC TECHNICAL MEMORANDUM, TM-1512, AND APPLICABLE PROJECT GENERAL ARRANGEMENT DRAWING.
- 6. CABLE RECEIVING INSPECTION TESTING TO BE IN ACCORDANCE WITH SECTION II. RECORDS TO BE PROVIDED.
- 7. CABLE TO BE SUPPLIED IN CONTINUOUS LENGTH UNLESS OTHERWISE APPROVED BY EIC ENGINEERING DEPARTMENT. IF CABLE SECTIONS ARE SUPPLIED THEN CABLE SPLICING INSTRUCTIONS AND SPLICING KIT TO BE SUPPLIED BY VENDOR WITH CABLE.

-01	PN 139366 16 AWG, 1 triad, 7 strand, tinned individual triads overall shield type PLTC, steel armor	Control Master Products, Inc. 1062 Shary Circle Concord, California 94518		
-02	PN 129366 16 AWG, 1 triad, 7 strand, tinned individual triads overall shield type PLTC, aluminum armor	Ph: 925-939-3600 Fax: 925-686-4371 Contact: Gary S. James		
DASH NO.	DESCRIPTION	SUGGESTED SUPPLIER		
	APPROVED SOURCE(S) OF S	UPPLY		

SPECIFICATION CONTROL DRAWING

REV. STATUS			110	1,0	1,0		L		L	i		<u> </u>	<u> </u>	l	<u> </u>	<u> </u>				<u> </u>	L.
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
UNLESS OTHERW SPECIFIED DIMENSIONS ARE IN I TOLERANCES DECIMALS FRAGE	NCHES CTIONS		ATA		ITE			CRY 350	OD' SALC	YN/	AMIC	CS E	ONA DIVIS SPA	ION				J			-
$.XX \pm .03$ ANO	GULAR T	RAWI DS) []	h	0	ATE 5/17/9 - 2/ -		TITL	_	re, ː		-	l6 A		-			-	Tri	ad,	
TREATMENT		ROJE	2h		5	12/1	9 ? 9						30						1	REV.	-
FINISH	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PPRO	VED		57	ri/	ا ا ا	SCA NOI	LE						DAT					NC SHEE I OF	T

I DESCRIPTION:

POWER LIMITED TRAY CABLE – 1 TRIAD + COMMUNICATION WIRE
TRIAD IS 16 AWG (7 X 24) TINNED COPPER, PVC INSULATION, COPPER DRAIN WIRE,
POLYESTER ISOLATION WRAP, COMMUNICATION WIRE IS 22 AWG (7 X 30) BARE COPPER, PVC
INSULATION, OVERALL BELDFOIL SHIELD WITH 16 AWG (7 X 24) TINNED COPPER DRAIN WIRE,
PVC JACKET WITH NYLON RIPCORD, STEEL OR ALUMINUM INTERLOCKED ARMOR, OVERALL
PVC JACKET

A) ELECTRICAL CHARACTERISTICS:

MAX. OPERATING VOLTAGE:

300 V RMS

NOM, CONDUCTOR DC RESISTANCE

@ 20 DEG. C (20/22 AWG):

4.2 / 14.7 OHMS / 1000 FT.

NOM SHIELD DC RESISTNACE

@ 20 DEG. C:

(INDIDUAL):

5.9 OHMS / 1000 FT. 3.7 OHMS / 1000 FT.

B) PHYSICAL CHARACTERISTICS:

TEMPERATURE RATING:

-30 TO +105 DEG. C

INSULATION MATERIAL:

PVC

INNER JACKET MATERIAL (COLOR):

PVC (BLACK), SUN RESISTANT POLY / AL FOIL, 100 %

TYPE SHIELDS AND % COVERAGE: CABLE DIAMETER (CORE):

0.49 INCHES AVERAGE

APPLICABLE SPECIFICATIONS (CORE):

UL NEC TYPE PLTC, CL3

COLOR CODE :

ALL TRIADS BLACK & WHITE RED NUMBERED CONSECUTIVELY,

ORANGE COMMUNICATION WIRE

AN INTERLOCKED STEEL OR ALUMINUM ARMOR AND PVC JACKET ARE APPLIED OVER THE

BELDEN 3045B CORE.

DIAMETER OVER ARMOR:

0,69 INCHES

DIAMETER OVER PVC JACKET:

0.82 INCHES (BLACK), SUN RESISTANT

MIN. BENDING RADIUS : NOM. WEIGHT / 1000 FT. : 9.8 INCHES 325 LBS.

MAX. PULLING TENSION :

124 LBS.

SPECIFICATIONS:

UL TYPE PLTC

FLAME RATING:

UL 1581 VERTICAL TRAY (70,000 BTU / HR)

C) REFER TO ATTACHMENT FOR CABLE MANUFACTURERS DETAILS.

CRYODYNAI	RNATIONAL CORPORATION WICS DIVISION CIRCLE, SPARKS, NV 89434	
Wire, Le	ad, #16 AWG, 3 Conductor, PVC Jacket with Armor	1 Triad,
Α	8050329	REV.
7	0000020	NC
SCALE	RELEASE DATE	SHEET
NONE	•	2 OF 4

II RECEIVING AT EIC INSPECTION TESTING

A) CONTINUITY TESTING

PROCEDURE:

OVERALL CABLE ASSEMBLY IS TO BE TESTED AT AMBIENT TEMPERATURE BY CHECKING

EACH CABLE CONDUCTOR WIRE AND OVERALL CABLE SHIELD AS FOLLOWS:

CONDUCTOR CONTINUITY

CONNECT THE METER TO EACH END OF THE

(6 PLACES):

CONDUCTOR

DRAIN WIRE CONTINUITY

CONNECT THE METER TO EACH END OF THE DRAIN

(3 PLACES):

WIRE

COMMUNICATION WIRE

CONNECT THE METER TO EACH END OF THE

CONTINUITY

COMMUNICATION WIRE

(1 PLACE):

CABLE DISCONTINUITY:

CONNECT THE METER TO ONE END OF THE CONDUCTOR AND THE END OF EACH ADJACENT

CONDUCTOR, DRAIN WIRE, COMMUNICATION WIRE

AND OUTER ARMOR.

ACCEPTANCE CRITERIA:

CONTINUITY SHOULD INDICATE THAT THERE ARE NO BREAKS IN THE CONDUCTOR, DRAIN WIRE, AND COMMUNICATION WIRE. DISCONTINUITY SHOULD INDICATE THAT THERE IS NO DISCONTINUITY BETWEEN THE CONDUCTOR AND EACH ADJACENT CONDUCTOR, DRAIN WIRE, COMMUNICATION WIRE OR OUTER SHIELD.

B) INSULATION RESISTANCE TEST

PROCEDURE:

USING A MEGGER, CHECK THE INSULATION RESISTANCE BETWEEN THE OUTER ARMOR AND EACH CONDUCTOR WIRE AT 250 VDC. HOLD THIS VOLTAGE FOR SIXTY (60) SECONDS. REPEAT THIS TEST FOR EACH CONDUCTOR IN THE ASSEMBLY

ACCEPTANCE CRITERIA:

RESISTANCE TO STABILIZE AFTER INITIAL CHARGE UP AND THE MINIMUM ALLOWABLE RESISTANCE OF FIVE THOUSAND (5K) MEGAOHMS.

III PACKAGING AND HANDLING

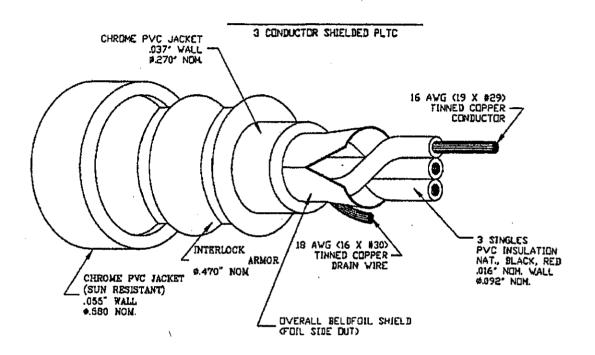
- A) CABLE TO BE PROTECTED AT ALL TIMES FROM HANDLING DAMAGE.
- B) WOODEN CABLE REEL TO BE CLADDED ON OUTSIDE DIAMETER TO AVOID EXTERNAL DAMAGE DURING SHIPMENT.

EBARA INTERNATIONAL CORPORATION
CRYODYNAMICS DIVISION
350 SALOMON CIRCLE, SPARKS, NV 89434
TITLE

Wire, Lead, #16 AWG, 3 Conductor, 1 Triad
PVC Jacket with Armor

Λ	8050329	REV.
A	8030323	NC
SCALE	RELEASE DATE	SHEET
NONE		3 OF 4

8050329-01 CABLE, BELDEN PN 139366 8050329-02 CABLE, BELDEN PN 129366



8050329-01 CABLE, STEEL INTERLOCKED ARMOR 8:050320-02 CABLE, ALUMINUM INTERLOCKED ARMOR

EBARA INTERNATIONAL CORPORATION
CRYODYNAMICS DIVISION

350 SALOMON CIRCLE, SPARKS, NV 89434 TITLE

Wire, Lead, #16 AWG, 3 Conductor, 1 Triad PVC Jacket with Armor

Α	8050329	REV. NC
SCALE	RELEASE DATE	SHEET
NONE		4 OF 4