

**SOUTH BAY CABLE
IDYLLWILD CA. 92549
CAGE CODE 20857**

**TEST REPORT
XXXXX-TR**

DATE:

CUSTOMER: Monterey Bay Aquarium Research Institute

CABLE PART NUMBER: SB-49528 Rev. A

PURCHASE ORDER NUMBER: XXXXXXXXX

JOB NUMBER: XXXXX-SB

REEL NUMBER: XXXXXX

Tested by: _____ Date: _____

Approved by: _____ Date: _____

1.0) DC Resistance @ 20° C:

1.1) Awg No. 12:

MAXIMUM DC RESISTANCE @ 20° C (OHMS/1000 FT)		
COLOR	REQUIRED	ACTUAL
BROWN	2.0	
ORANGE		
YELLOW		

1.2) Awg No. 16:

MAXIMUM DC RESISTANCE @ 20° C (OHMS/1000 FT)		
COLOR	REQUIRED	ACTUAL
RED	5.0	
GREEN		

2.0) Voltage withstand conductor to conductor

VOLTAGE WITHSTAND CONDUCTOR TO CONDUCTOR			
COLOR	REQUIRED	PASS	FAIL
AWG 12-BROWN	8,000 VAC		
AWG 12-ORANGE			
AWG 12-YELLOW			
AWG 16-RED			
AWG 16-GREEN			

3.0) Insulation Resistance conductor to conductor

INSULATION RESISTANCE CONDUCTOR TO CONDUCTOR (MEGOHMS-1000 FT)			
COLOR	REQUIRED	PASS	FAIL
AWG 12-BROWN	1000 (MINIMUM)		
AWG 12-ORANGE			
AWG 12-YELLOW			
AWG 16-RED			
AWG 16-GREEN			

4.0) Fiber optic attenuation

MAXIMUM FIBER OPTIC ATTENUATION (dB/km)				
COLOR	REQUIRED		ACTUAL	
	1300 nm	1550 nm	1300 nm	1550 nm
	0.40	0.30		

5.0) Visual & Dimensional

AWG No. 12 STRANDED CONDUCTOR:

REQUIRED: 19 x 0.0179" BARE COPPER

ACTUAL: _____

AWG No. 16 STRANDED CONDUCTOR:

REQUIRED: 19 x 0.0113" BARE COPPER

ACTUAL: _____

AWG NO. 12 INSULATION OD		
COLOR	REQUIRED	ACTUAL
BROWN	0.180" $\pm$ 0.004"	
ORANGE		
YELLOW		

AWG No. 16 INSULATION OD		
COLOR	REQUIRED	ACTUAL
RED	0.180" $\pm$ 0.004"	
GREEN		

FIBER OPTIC TUBE JACKET OD:

Required: 0.150" $\pm$ 0.003"

Actual: _____

OD OVER CABLED COMPONENTS:

Required: 0.516 Nominal

Actual: _____

INNER JACKET OD:

Required: 0.620" $\pm$ 0.010"

Actual: _____

OD OVER STRENGTH MEMBER:

Required: 0.780" Nominal

Actual: _____

FINAL OD:

Required: 0.930" $\pm$ 0.020"

Actual: _____

WEIGHT OF CABLE IN AIR:

Required: 400 LB/1000 FT NOMINAL

Actual: _____

CALCULATED WEIGHT OF CABLE IN SEAWATER:

Required: 95 LB/1000 FT NOMINAL

Actual: _____