

Configuration: DK-602-0157-Series Kit contains a contact per Figure 1 and a Braid Terminator as described in Table II. Note the dash number following the part number.

TABLE II

Part Number	Braid Terminator	Cable O.D. Ref.
DK-602-0157-1	D-600-0044-1	.140 max.
DK-602-0157-2	D-600-0044-2	.155 max.
DK-602-0157-3	D-600-0044-3	.170 max.
DK-602-0157-4	D-600-0044-4	.180 max.

Qualification: Qualification Test Report is on file at Raychem.

Designs and Construction: Dimensions (Figure 1), design characteristics and configurations meet the functional requirement of M39029/91 for cable listed in Table III.

TABLE III. DESIGN CHARACTERISTICS

Contact Cavity Size	Cables Accommodated <u>1/</u>	Type	Class
	<u>Raychem</u>	(D)	(A)
8	10612 10613 10614	Copper Alloy Shielded	125°C

1/ Other applications should be submitted to Raychem for evaluation.

Mating Contact: D-602-0156, D-602-0169 and M39029/90.

Tools: See Table IV.

TABLE IV. TOOLS

Heating Tools <u>2/</u>	Reflectors <u>2/</u>	Holding Fixtures <u>2/</u>	Installing Tools	Removal Tools
AA-400 Super Heater	Mini Solder Sleeve	Raychem	M81969/14-06	M81969/14-06
CV-5300 Mini Gun	MG-1 Solder Sleeve	AD-1319 with AT-1319-14,	M81969/46-06	M81969/46-12

2/ See Termination Procedure: Raychem ES 61231.

Electrical Performance:

Contact Resistance: See Table V.

TABLE V. CONTACT RESISTANCE

Test Cable	Maximum Voltage Drop (millivolts)									Test Current (Amps)		
	25° +3° -0°C			3/ 25° +3° -0°C			125° +3° -0°C					
	CONTACT											
	I N N E R	M I D D L E	O U T E R	I N N E R	M I D D L E	O U T E R	I N N E R	M I D D L E	O U T E R	I N N E R	M I D D L E	O U T E R
<u>Raychem</u> 10612	55	55	75	66	66	90	94	94	128	1.0	1.0	12.0

3/ After conditioning.

Low Signal Level Contact Resistance: See Table VI.

TABLE VI. LOW SIGNAL LEVEL CONTACT RESISTANCE (INNER CONTACT ONLY)

Test Cable	Maximum Contact Resistance (milliohms)	
	Initial	After Conditioning
Raychem		
10612	55	66

Dielectric Withstanding Voltage: See Table VII.

TABLE VII. DIELECTRIC WITHSTANDING VOLTAGE

Contacts	Altitude	Test Voltages ac rms
Inner to Middle	Sea Level	1000
Middle to Outer	Sea Level	500

Operating Frequency: 0 to 20 MHz (operating frequency range)

Voltage Rating: 500 volts rms maximum at sea level; 125 volts at 70,000 feet

Mechanical Performance:

Contact Engagement and Separation Force (Socket Contacts Only): See Table VIII.

TABLE VIII. CONTACT ENGAGEMENT AND SEPARATION FORCE

Test Pin Diameter (inch)	Minimum Separation Force (ounces)		Maximum Engagement Force (ounces)	
	Initial	After Conditioning	Initial	After Conditioning
.2190 $\begin{smallmatrix} +.0000 \\ -.0001 \end{smallmatrix}$	NA	NA	48	60
.2170 $\begin{smallmatrix} +.0001 \\ -.0000 \end{smallmatrix}$	3.0	2.0	NA	NA
.0245 $\begin{smallmatrix} +.0000 \\ -.0001 \end{smallmatrix}$	NA	NA	12	14
.0235 $\begin{smallmatrix} +.0001 \\ -.0000 \end{smallmatrix}$	0.5	0.4	NA	NA

Tensile Strength: See Table IX.

TABLE IX. TENSILE STRENGTH (AT AMBIENT)

Test Cable	Tensile Strength (pounds) (minimum) <u>4/</u>		
	Inner Contact	Middle Contact	Outer Contact
<u>Raychem</u>			
10612	8	8	15
10613	8	8	25
10614	8	8	25

4/ Cable may break before the termination.

Vibration: Per MIL-C-39029/91A.

High Impact Shock: Per MIL-C-39029/91A.

Environmental Performance:

Operating Temperature: -65°C to +125°C.

Humidity: Per MIL-C-39029/91A at rated temperature for Type A contact.

Material:

Raw Material and Plating: Per MIL-C-39029, Type D.

Dielectric: Fluoropolymer.

Insulation Sleeve: Polyvinylidene Fluoride.

Solder: Sn63 per QQ-S-571 with RMA flux.

tyco

Electronics

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DOCUMENT NUMBER

DK-602-0157 Series

REVISION

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REV. LETTER	PAGE	DETAILS OF REVISION	DATE	BY
N/C	1-6	Released per E.O. D-3208	02/21/85	IM
A	1-6	Revised per E.O. D-3338	05/16/85	IM
B	1	Revised per E.O. D-3456	06/05/85	IM
C	1-6	Revised per ECN T-06289	5/20/86	<i>Chen</i>
D	2	Revised per ECN T-7900	4/15/87	<i>Chen</i>
E	1,4	REVISED PER ECN T-08767	10/19/87	<i>Chen</i>
F	1-6	Revised per ECN T-012254	6/15/89	<i>M. Higgins</i>
G	2,6	Revised per ECN T-12832	8/28/89	<i>M. Higgins</i>
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