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Project 98RT385

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REPORT

on

COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL, and POWER APPLICATIONS

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DESCRIPTION

PRODUCT COVERED:

Component Connectors - Cat. Nos. 70.500 and 70.510 May be followed by .06, .10, .16, .24, .32 or .48, followed by 53.

GENERAL:

These devices are multipole * Spring force-type terminal adapter connectors intended for factory assembly and may be grouped in two or more applications.

ELECTRICAL RATINGS:

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Cat. No.	Voltage, Vac/dc	Current, A	Wire Size, AWG
70.500, 70.510	600V	16A	12AWG
		15A	14AWG
		12A	16AWG
		10A	18AWG

NOMENCLATURE:

$\frac{70}{I}$	$\frac{.500}{II}$	$\frac{.16}{III}$	$\frac{53.}{IV}$
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I. Model:

70 - Basic model designation.

II. Gender:

500 - Female Contacts
510 - Male Contacts

III. Number of Contacts:

06 - 6 Contacts
10 - 10 Contacts
16 - 16 Contacts
24 - 24 Contacts
32 - Two 16 contact devices in one housing
48 - Two 24 contact devices in one housing

IV. Model:

53 - Basic model designation.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

Use - For use only in or with complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Conditions of Acceptability - In order to be judged acceptable as a component of electrical equipment, the following conditions should be met.

1. The placement of these devices within the equipment enclosure should be such that spacings between the live parts and the equipment are suitable for the particular application.

2. The operating temperature of these devices should not exceed the temperature ratings of the specified insulating materials. (These materials may be interchangeable at a max temperature of 90° C).

3. The components were investigated and tested for use using No. **12-18** AWG stranded wire.

4. The acceptability of the grounding connection shall be determined by the end-product engineer.

5. The electrical and mechanical suitability of the wiring terminals shall be determined in the end-use.

6. The strain relief is to be investigated for the application.

7. The suitability of the combination of the receptacles and plugs and their associated hoods and enclosures have not been evaluated and should be judged in the end-use application.