

## Shielded M8 to M8 cord sets

### 1.0 SCOPE

This Product Specification covers the Shielded M8 to M8 cord set series, including but not limited to the products listed in 2.1. Those products comply with IEC 61076-2-104, deviations and special characteristics are documented in this specification.

### 2.0 PRODUCT DESCRIPTION

The characterized products are designed to be used for high frequency applications.

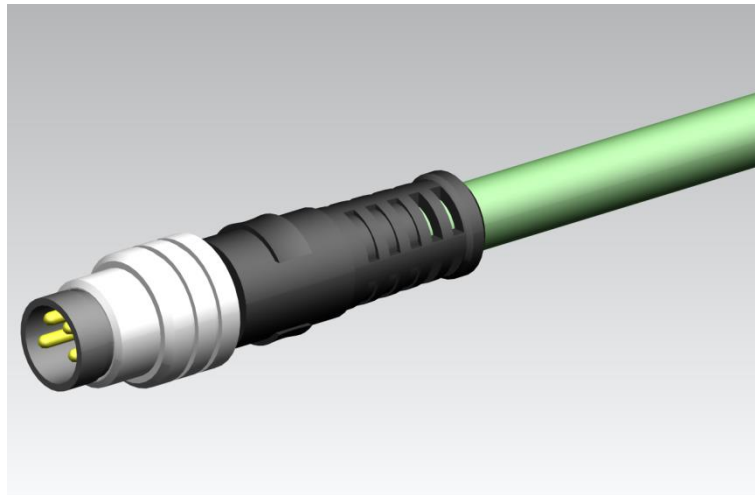


Figure 1: M8 Male connector head

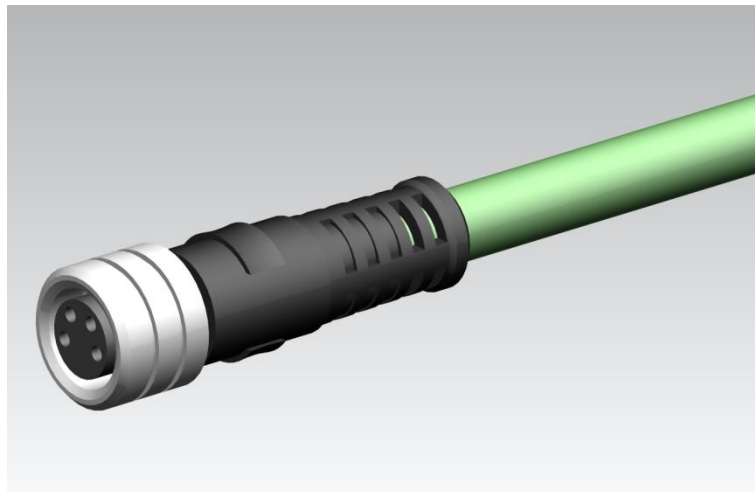


Figure 2: M8 Female connector head

REVISION: <b>001</b>	ECR/ECN INFORMATION: EC No: <b>104615</b> DATE: <b>2016 / 06 / 08</b>	TITLE: <b>Shielded M8 to M8 cord set</b>	SHEET No. <b>1 of 5</b>
DOCUMENT NUMBER: <b>1203591000 PS P00</b>	CREATED / REVISED BY: <b>T. Haerd</b>	CHECKED BY: <b>-</b>	APPROVED BY: <b>C. Bruns</b>



## 4.2 CONDUCTOR INSULATION REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
9	Insulation color		Color Pair 1 <b>GN/YE</b> Color Pair 2 <b>BU/PK</b>
10	<b>Dielectric Withstanding Voltage</b>	Unmate connectors: apply voltage for <b>200</b> ms between adjacent terminals and between terminals to ground.	<b>500 VAC</b> ; No breakdown

## 4.3 SHIELD REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
11	Overall screen		Tinned copper braid. Coverage <b>≥85%</b> .

## 4.4 JACKET REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
12	Material		<b>PUR</b>
13	Diameter		<b>4,9 ± 0,2</b>

## 4.5 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
14	<b>Insertion force</b>	according IEC 60512, Test 13b	Max. <b>10 N</b>
15	<b>Withdrawal force</b>	according IEC 60512, Test 13b	Max. <b>15 N</b>
16	<b>Mating cycles</b>	according IEC 60512, Table 8	<b>100</b> cycles
17	<b>Vibration</b>	according IEC 60512, Test 6d:	PASS
18	<b>Shock</b>	according IEC 60512, Test 6c	PASS
19	<b>Drag chain</b>		Suitable

## 4.6 ENVIRONMENTAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
20	<b>Operating temperature</b>		Fixed: <b>-20 °C to +80 °C</b> Moved: <b>-20 °C to +50 °C</b>
21	<b>Humidity</b>	according to IEC 60512, 11a, 11i, 11m	<b>93 %</b> at <b>40 °C</b>
22	<b>IP rating</b>	In mated condition, according IEC 60529	<b>IP67</b>

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## 5.0 TESTS

### 5.1 RELEASE ACCORDING INTERNATIONAL STANDARDS

- Withstand Voltage according to insulation requirements.
- Continuity test
- Visual control

### 5.2 SERIES

- Continuity test
- Withstand Voltage according to insulation requirements.

## 6.0 LABELING AND PACKAGING

Parts shall be labeled according to Molex standard.

Parts shall be packaged to protect against damage during handling, transit and storage.

24 pieces packed in one carton, without plastic bag.

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Document Revision History				
Version	Date yyyy/mm/dd	Authors	Modifications Details	
001	2006/06/08	T. Haerd	First release	

COSTUMER PRODUCT APPROVAL

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

MUST BE SIGNED AND RETURNED BEFORE

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