H-MTD® SERIES

BENEFITS
- Fully shielded 2 wire data connectivity solution
- Interface, PCB and cavity compatible to Rosenberger H-MTD®
- High speed, up to 20 Ghz, various cable design, optional Connector Position Assurance (CPA)

FEATURES
- Basic high speed data solution for future autonomous driving and infotainment application
- Outstanding performance for differential pair signal transmission
- Stable performance across various temperatures & frequencies
- Optimized insertion force
- Improved retention force

AVAILABLE CONFIGURATIONS
- Cavity count (ports): 1, 2, 4, 6
- Genders: Female, Male
- Sealing Type: Cable Sealed
- Indexes: A, B, C, D and Z
- TPA: Yes
- CPA: Optional

ELECTRICAL CHARACTERISTICS
- Frequency Range: DC to 1 GHz
- Impedance: 100 Ω
- Return Loss: ≥ 30 dB, DC to 1 GHz, TBD, DC to 20 GHz
- Power Current: ≤ 1.5 A DC
- Cable Type STP: G&G X9305, Dacar 686-3, Dacar 647-4*

APPLICATIONS
- ECU for Autonomous driving
- Radar
- Lidar

TEMPERATURE
- +105°C
- -40°C

TECHNICAL INFO
- VIBRATION CLASS
  - SC 1 body unsealed
  - SC 2 body sealed
- SEALING CLASS
  - LV214 or DIN60329 IPX9K
  - USCAR V1 chassis profile

CHANNEL SPECIFICATION
- IEEE 802.3bp (1000BASE-T1)
- IEEE 802.3ch (NGAUTO)
- PCI E (in preparation)

H-MTD® is a registered trademark of Rosenberger Hochfrequenztechnik GmbH & Co.

* other cables can be investigated, please consult us.

About Aptiv
Aptiv is a global technology company that develops safer, greener and more connected solutions enabling a more sustainable future of mobility.

Visit aptiv.com
### HOUSINGS

<table>
<thead>
<tr>
<th>Configuration</th>
<th>1 port unsealed female</th>
<th>2 port unsealed female</th>
<th>4 port unsealed female</th>
<th>6 port unsealed female</th>
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<tbody>
<tr>
<td>Part numbers</td>
<td>Consult us</td>
<td>Consult us</td>
<td>Consult us</td>
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<tr>
<td>Codes available</td>
<td>A, B, C, D, Z</td>
<td>A, B, C, D, Z</td>
<td>A, B, C, D, Z</td>
<td>A, B, C, D, Z</td>
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<tr>
<td>Dimensions (mm)</td>
<td>11 x 12.7 x 28.6</td>
<td>19 x 12.7 x 28.6</td>
<td>19 x 18.7 x 28.6</td>
<td>27 x 18.7 x 28.6</td>
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<table>
<thead>
<tr>
<th>Configuration</th>
<th>1 port unsealed female</th>
<th>1 port unsealed + 6x0.64 female</th>
<th>2 port unsealed + 6x0.64 female</th>
<th>1 port unsealed male</th>
<th>2 port unsealed male</th>
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<tr>
<td>Dimensions (mm)</td>
<td>13.9 x 16 x 33.1</td>
<td>20.3 x 12.7 x 28.6</td>
<td>28.3 x 12.7 x 28.6</td>
<td>20.2 x 12.7 x 28.6</td>
<td>28.3 x 13.1 x 28.6</td>
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### HEADERS

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<tr>
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<th>1 port unsealed male</th>
<th>2 port unsealed male</th>
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<tbody>
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<td>Consult us</td>
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<td>Dimensions (mm)</td>
<td>11 x 15.2 x 21.8</td>
<td>19 x 15.2 x 21.8</td>
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<td>32.6 x 20.1 x 23</td>
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### CABLE ASSEMBLY

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<tr>
<th>Configuration</th>
<th>1 port housing female - female</th>
<th>1 port housing female - male</th>
<th>AMEC STP - Mixed cable assembly</th>
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<tbody>
<tr>
<td>Part numbers</td>
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<td>Consult us</td>
<td>Consult us</td>
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<tr>
<td>Length</td>
<td>min 405 ± 5</td>
<td>min 405 ± 5</td>
<td>min 405 ± 5</td>
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<td>Cable Type</td>
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<td>All specified cables</td>
<td>Dacar 647-4</td>
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Part numbers, specifications, dimensions and performance data in this document are for general references only and are subject to change without notice. To verify product information, please contact an Aptiv representative.