

INTRODUCING

AMPSEAL 16 CONNECTOR WITH COAXIAL TERMINALS

Coaxial connector for radio frequency to meet the tough requirements of commercial transportation.

Powerful Design

TE Connectivity's new environmentally sealed AMPSEAL 16 connector with coaxial terminals is designed specifically for your coaxial connection needs in heavy-duty off-road and on-highway applications. This rugged four position coax connector features a locking latch for mating and utilizes TE's industry-proven AMPSEAL 16 style thermoplastic housing technology. The connector accepts TE's robust MATE-AX automotive coax terminals and delivers superior analog signal and digital data transmission performance.

Our portfolio was engineered to solve technical challenges across the globe:

- Dependability for longer lasting use
- Optimal, high quality design helps to reduce manufacturing and service costs
- Integrated Primary Latch Reinforcement (PLR) confirms contact alignment and retention
- Terminals protected from environment

- 4-way ruggedized coax system
- Up to 6 GHz frequency
- Usage of existing RTK031 and RG174 coaxial cable
- Includes connector positioning assurance for functional safety
- Existing accessories: backshells

OPERATING ENVIRONMENT:

- Dust, dirt, and moisture
- Reduce environmental issues with IP67
- Temperature range: -40°C to +105°C
- Vibration and mechanical shock resistance



Our solutions adapt to virtually any **harsh environment application**, including:



Radar/Lidar



Cameras



Telematics Units



Infotainment Applications



Antennas



V2X



ADAS

AMPSEAL 16 CONNECTOR WITH COAXIAL TERMINALS

WHAT'S GOING ON IN DATA CONNECTIVITY?

Today's vehicles utilize new functionalities that help increase productivity and safety, while also driving down the total cost of ownership. Customers are demanding increases in driver assistance, advanced safety features, and automated driving functions. These new functionalities are changing technology and products, resulting in the need for more connectivity.

Features such as automatic braking, vehicles communication with the depot or head office, and 360° view cameras are becoming basic requirements for new vehicles. Commercial vehicles of the future will "know" more about their environment and the route ahead. For instance, truck platooning reportedly reduces fuel consumption. Advanced Driver Assistance Systems (ADAS), which gradually develop into autonomous driving, are realized by a range of sensors (camera, radar, lidar). Some of these sensors will need to be positioned on the truck where they will be subjected to harsh conditions. All sensors must be interconnected with a network that can transmit high data with low latency throughout the truck, which enables all information to be processed in one or more electronic control units (ECU). This creates a fused model of the environment, allowing the vehicle to achieve autonomous driving in all situations.

Our engineers understand how commercial vehicles are advancing and know the types of harsh environments they will face. To meet the needs of the future, we developed the new sealed AMPSEAL 16 connector.

AMPSEAL 16 WITH COAXIAL TERMINALS PRODUCT FEATURES

IP67

Dust and water protection

PLR

Primary Latch Reinforcement designed to help avoid contact misalignment

6GHz

Operating frequency



AVAILABILITY

Available Today
MATE-AX terminals, RG174, and RTK031

Coming Soon

B-Samples:

4-Pos Plug: April 2019
4-Pos Plug Housing: April 2019
Passthrough: May 2019

C-Sample Parts: Q4 2019

D-Sample Parts: Q3 2020

Headers and 1 position variants planned.

Please contact your TE representative for cable assembly samples when available.

www.te.com/dataconnectivity

© 2018 TE Connectivity. All Rights Reserved.

AMPSEAL 16, MATE-AX, TE, TE Connectivity and TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies. Other logos, product and Company names mentioned herein may be trademarks of their respective owners. While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this brochure are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

1-773971-9 03/19 Original

INDUSTRIAL AND COMMERCIAL TRANSPORTATION /// DATA CONNECTIVITY

