



## Madison Cable Brand 14 GHz (FDR) High Speed Parallel and Twisted Pair Products

TE's Madison Cable Brand 14 GHz (FDR) cables are an extension of the TurboTwin and InfiniTwist product families. With over 15 years of experience in High Speed (> 1 Gb/sec) differential pair manufacturing, TE is able to manufacture this family of products in various AWG sizes and configurations allowing for superior termination handling, durability and custom designs.

The TurboTwin cable designs are built utilizing proven parallel pair constructions. These designs allow for customization with regards to pair locations, drain wire orientation, and pair identification. Providing a slightly smaller diameter cable than a similar InfiniTwist cable design, the TurboTwin family of products is well suited for applications that do not require concerns about cable flex life or bend radius.

The InfiniTwist cable designs are built utilizing a shielded twisted pair construction. InfiniTwist products allow for a tighter bend radius for improved cable management in high-density systems. The twisted pair design also helps to dramatically reduce termination issues associated with pistoning. The cables are inherently balanced and provide better mechanical reliability than parallel pair products. InfiniTwist cables are well suited for environments where flexibility, flex life and bend radius are concerns.



## KEY FEATURES AND BENEFITS

- Spike/suck-out free cables beyond 14 GHz for improved signal integrity
- Industry-leading within pair time delay skew
- Low differential to common mode conversion
- Designs include round, flat, breakout, and composite constructions
- Available in both center and side drain designs

## TE Technical Support Center

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## APPLICATIONS

- Infiniband FDR
- 12G SAS
- 16 Gb/s Fibre Channel
- 14G Infiniband
- 1X, 4X, 8X, 12X constructions

## MECHANICAL

- Available from 1-36 pair
- Low Smoke Zero Halogen available
- InfiTwist product designs capable of smaller bend radius - 2.5X cable OD typical

## ELECTRICAL

- 100 Ohm Impedance
- Applications up to 14-16 Gb/s per lane
- 14 GHz clean performance

## MATERIALS

- Silver plated conductors for excellent signal integrity
- Foam primary insulation utilizes uniform, small cell structure for exceptional performance
- Available in 32, 30, 28, 26, and 24 AWG
- Low Smoke Zero Halogen designs available

## PARALLEL PAIR PRODUCT OFFERINGS\*

TE Part Number	Part Description
16KB2LF037	8 Pair 30 AWG 14G/TurboTwin Cable
16KD2LF039	8 Pair 28 AWG 14G/TurboTwin Cable
16KE2LF039	8 Pair 26 AWG 14G/TurboTwin Cable
16KF2LF041	8 Pair 24 AWG 14G/TurboTwin Cable

## TWISTED PAIR PRODUCT OFFERINGS\*

TE Part Number	Part Description
16KB3LF002	8 Pair 30 AWG 14G/InfiTwist Cable
16KD3LF004	8 Pair 28 AWG 14G/InfiTwist Cable
16KE3LF002	8 Pair 26 AWG 14G/InfiTwist Cable
16KF3LF002	8 Pair 24 AWG 14G/InfiTwist Cable

\*For samples and product specifications, please contact bmorissette@te.com



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