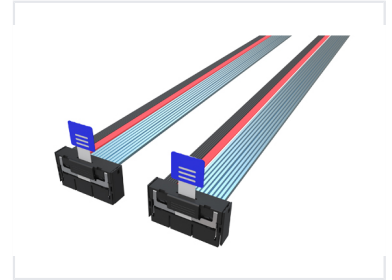


# SFF-TA-1002 Gen-Z High-Speed Interconnect Cable

The Gen-Z cable is a high density and modular interconnect, providing flexibility and signal integrity for high speed signaling. It utilizes variations of 1C, 2C, and 4C configurations within the SFF-TA-1002 connector system.



## Product Overview

### High-Speed Gen-Z Interconnects

The SFF-TA-1002 Gen-Z interconnect system is a high-density, modular solution designed for modern high-speed signaling environments. Engineered for flexibility and superior signal integrity, these cables support advanced data rates and space-saving integration. The system is compliant with SNIA standards, providing robust mechanical performance for demanding server, storage, and networking applications.

## Technical Specifications

Standard Compliance	SFF-TA-1002
Connector Pitch	0.6 mm
Impedance	85 ohm
Wire Gauge	30AWG, 31AWG, 32AWG, 33AWG, 34AWG

## Performance Metrics

### Performance Capabilities

**32 GT/s**

PCIe 5.0

**56 GT/s**

PAM4 Signal Rate

**112 GT/s**

PAM4 Max Rate

## Configuration Options

### Plug Configurations

#### Configuration

1C Straight

1C Right Angle

2C Straight

2C Right Angle

4C Straight

4C Right Angle

## Target Applications

### Typical Use Cases

- Switch, Router, Servers
- Storage and RAID Systems
- External Storage Data Systems
- SAS/SATA/PCIe HBA Interfaces
- Direct Attached Storage (DAS)