



Gen.3 / Gen.4 NVMe Flat-Cable for M.3 (NGSFF) & U.3 (SFF-8639)

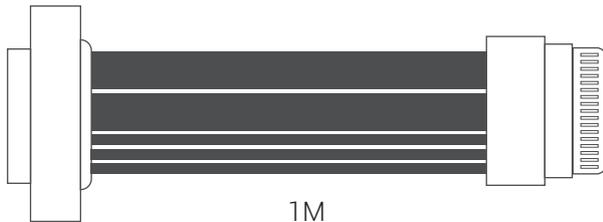
Product Description | Flat cable solution for SSD interface extension without signal amplifiers.



Ultra-Thin
1.25mm

High Speed
Supports SATA / SAS / PCIe Gen.3 (8Gbps), Gen.4 (16Gbps upcoming).

Flexible & Power Ready
180° bendable, impedance stable. Supports 3.3V / 12V power. NF1 SSD support up to 128TB.



1M



U.3_8639 68F Mold



M.3 75F Vertical type



M.3 75F 22110 type



M.3 75M 2280 type



PCIe 64M X4



U.3 SFF-8639 68M



SFF-8611 Oculink 42M passive



SFF-8654 SlimLine 38M



SFF-8643 miniSAS HD 36M

Specifications

Item	Description
Transmission Rate	PCIe Gen.3 (8 Gbps), upgradeable to Gen.4 (16 Gbps)
Connector Support	U.3 (SFF-8639 68F) / M.3 (NGSFF / NF1)
Cable Thickness	1.25 mm flat cable
Maximum Length	Up to 1 meter
Bendability	180° bendable with stable signal integrity
Power Support	Supports 3.3V / 12V input
Chip Requirement	No repeater or equalizer chip required
Origin & Patents	Made in Taiwan, patented in multiple countries



Applications

1. Suitable for high-speed extension of Gen.3 / Gen.4 NVMe SSD modules (U.3, M.3 / NF1)
2. Supports SATA / SAS / PCIe protocols, ideal for motherboard and storage card interconnections
3. Designed for internal signal routing in high-capacity servers, data centers, and AI computing systems
4. Compatible with vertical or side-mounted M.3 22110 and 2280 form factor installations

Connector Type Reference

Model No.	Interface	Connector Direction / Conversion
5G75A21 Series	M.3 75F (to 75M 2280 type)	Vertical extension cable
5G75A27 Series	M.3 Vertical	NF1 plug-in vertical adapter board
5G75A22 Series	M.3 75F → PCIe X4 64M	PCIe X4 motherboard interface
5G68A18 Series	U.3 68F	Standard U.3 extension cable
5G75A28 Series	M.3 Vertical	Side-insertion support for PCIe motherboards
5G75A23 Series	M.3 75F → U.3 68MU	Reverse-use for U.3 modules
5G75A25 Series	M.3 75F → SFF-8654 SlimLine	SlimLine transmission integration
5G75A26 Series	M.3 75F → Fast Lock (SFF-8643)	For miniSAS HD interface
5G68A14/13 Series	U.3 68F → SFF-8611 / SFF-8654	Connects to Oculink / SlimLine host side
5G75A30~32 Series	M.3 Vertical → Oculink / SlimLine	Vertical NF1 SSD application