

MANUFACTURER-SOURCE TECHNICAL REFERENCE

Mitsubishi Electric MR-D05UDL3M-B

Product Reference

Mitsubishi Electric 3 m Safe Torque Off (STO) cable for CN8

DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited Mitsubishi Electric manufacturer sources. No product photograph is included.

Product / lookup identity	Mitsubishi Electric MR-D05UDL3M-B
Reference number	MR-D05UDL3M-B
Document basis	Published Mitsubishi Electric product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/Mitsubishi/mr-d05udl3m-b>
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Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

Mitsubishi Electric MR-D05UDL3M-B is a 3 m Safe Torque Off (STO) connection cable for the CN8 safety interface. The cable carries two STO input channels and the associated monitor/output conductors documented for the CN8 interface: STO1, STO2, STOCOM/24G, TOF1, TOF2 and TOFCOM/24V. System context: Mitsubishi Electric 3 m Safe Torque Off (STO) cable for CN8.

Published field	Manufacturer-published value or verified identity note
Manufacturer	Mitsubishi Electric
Exact model	MR-D05UDL3M-B
Material number	227986
Product type	Safe Torque Off (STO) cable
Cable length	3 m
Drive-side interface	CN8 STO connector
Drive-side connector set	2069250-1 (TE/Tyco Electronics), per official manual

System function and signal path

01	Safety controller: dual STO command and monitoring interface
02	Cable: MR-D05UDL3M-B, 3 m, B-suffix controller-side configuration
03	Drive: CN8 STO interface with STO1/STO2 and TOF monitoring conductors

Applications, answers, and official sources

1 STO safety-controller connection: Connects a supported Mitsubishi Electric drive CN8 interface to an approved safety controller other than MR-J3-D05.

2 Machine safety retrofit: Supports evidence-led replacement of an existing 3 m B-suffix STO cable after exact host and pinout verification.

3 Commissioning and validation: Provides the documented STO1/STO2 and TOF monitoring conductors used during an engineered safety validation.

4 Maintenance spares planning: Separates material number 227986 from shorter or differently terminated MR-D05UDL cable variants.

Frequently asked questions

What is MR-D05UDL3M-B?	It is a Mitsubishi Electric 3 m Safe Torque Off connection cable for the drive CN8 interface.
Is the exact model officially verified?	Yes. Mitsubishi Electric manuals and catalogs list MR-D05UDL3M-B exactly.
What is the official material number?	A current Mitsubishi Electric regional listing identifies material number 227986.
How long is the cable?	The published length is 3 m.
Which connector does it serve?	It is documented for the drive-unit CN8 STO connector.
Which signals are shown in the official connection diagram?	STO1, STO2, STOCOM/24G, TOF1, TOF2 and TOFCOM/24V.

Official Mitsubishi Electric sources

Mitsubishi Electric MDS-DM2 Series Specifications Manual	https://www.mitsubishielectric.com/dl/fa/document/manual/cnc/ib1501136/ib1501136engb.pdf
Mitsubishi Electric C80 Series Connection and Setup Manual	https://www.mitsubishielectric.com/dl/fa/document/manual/cnc/ib1501452/ib1501452engf.pdf
Mitsubishi Electric Safety Solutions Catalog	https://www.mitsubishielectric.com/dl/fa/document/catalog/sol/safety/l%28na%2908142e/l08142eb.pdf
Mitsubishi Electric CNC Drive System General Catalog	https://dl.mitsubishielectric.com/dl/fa/document/catalog/cnc/bnp-a1232%28eng%29/bnpa1232enga.pdf
Mitsubishi Electric MR-D05UDL3M-B product listing	https://tr-fa.mitsubishielectric.com/fa/products/dr/servo/servo-options/cables?redirect_from_legacy=1
Mitsubishi Electric MR-J3/MR-J4 replacement guidance	https://www.mitsubishielectric.com/fa/document/sales/servo/l7-06e/l7-06be.pdf