

	Doc or ECO #:	ECO-DD8-001MF-001	Date:	11/16/2020	Author:	aeg
	Rev. #:	B				
Engineering Change Order (ECO)	Engineering Approval:	aeg	Date:	11/16/2020	Quality Approval:	SL

P/N #:	DD8-001MF	Effective Date:	November 16, 2020
Title:	New cable and increased length		

1.0 Purpose / Summary

The purpose of this ECO is to update the 8 pin extension with the new tougher cable. The length was also slightly increased.

2.0 Parts Affected

Part Number	Notes	Removed	Added	Modified	REV
DD8-001MF	8 pin extension	☐	☐	☒	A
DD8-001MF-ASM	Assembly w/ locking sleeves	☐	☐	☒	B
72936	8/20 cable TPEE	☐	☒	☐	A
70909	Spares Kit, MSS Defender	☐	☐	☒	C

3.0 Detail

The latest cable being used on the **DD8-001MF** went EOL. Birns could not source an acceptable replacement so VideoRay specified a robust custom 8/20 cable from ROVcable [72936]. This cable has improved insulation material, no central conductor, and a smaller diameter.

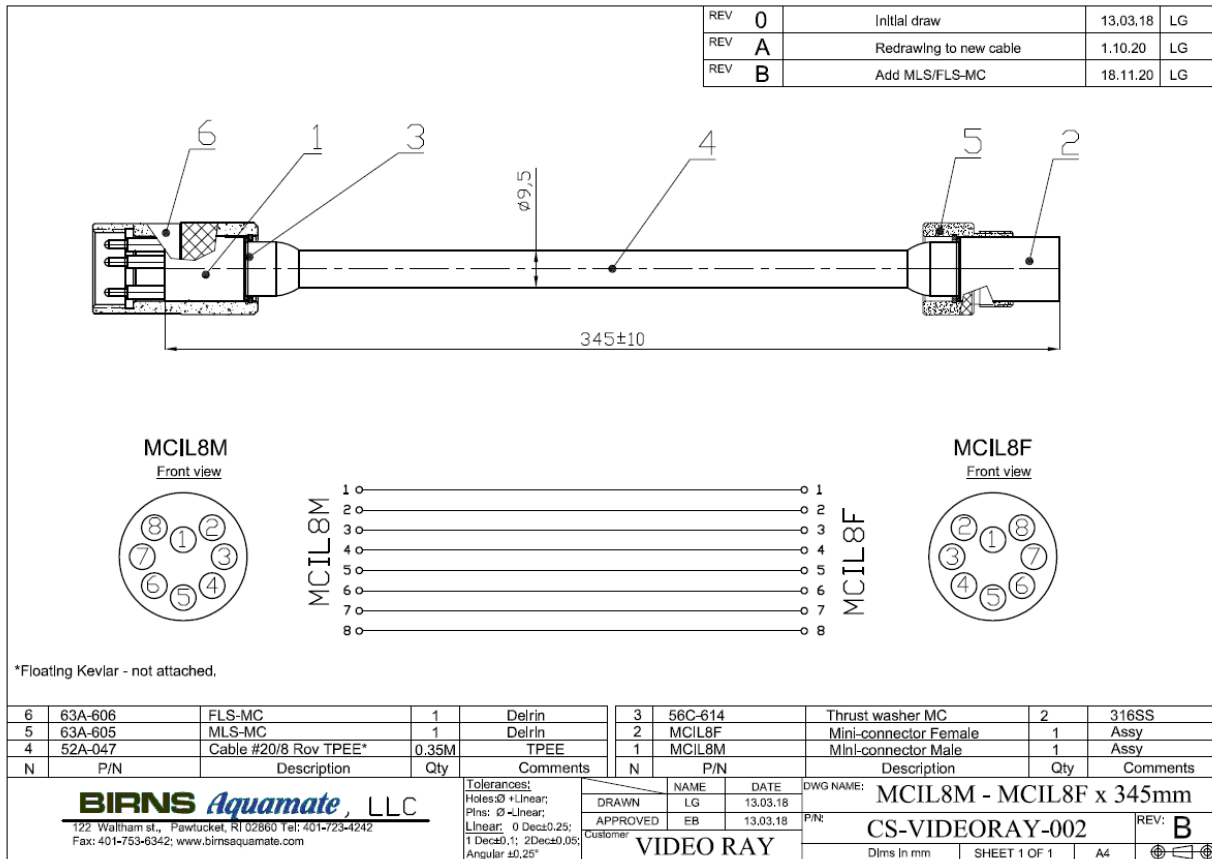
Extensions on the lower end of the tolerance were short enough to cause potential failure in the strain relief of the defender. The length of the assembly was increased to a nominal 345mm from 322mm.

BIRNS also agreed to provide a fully assembled **DD8-001MF-ASM**, the connectorized cable with locking sleeves installed. Purchasing notes have been updated to include ""male sleeve on female connector & female sleeve on male connector"

The new longer more rigid whip does require a minor internal reconfiguration of the MSS spares kit [70909], revision remains the same (C).

Note that revisions had previously not been tracked on this historic parts [DD8-001MF , DD8-001MF-ASM]. The revision numbers were reset to A, even though it is not the first revision, to match the engineering drawings from Birns. We will use standard versioning moving forward.

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4.0 Disposition of Material

- Previous revisions may still be used.
- “shorter” previous revisions will be scrapped for engineering and fixed asset use on topside components.
- Repairs does not have to replace undamaged customer equipment.

5.0 Action Items

Action	Department	Acknowledgement Initials
Publish new birns engineering drawings	ENG	aeg
Update Epicor/purchasing comments	ENG	aeg
Order new cable and ship to Birns for assembly	PUR	RM
Update PO to use DD8-001MF-ASSM	PUR	RM

6.0 Modified / Referenced Documents:

Document	Current Revision

7.0 Revision History

Date Revised (mm-dd-yyyy)	Location of Change (section, paragraph no., step no., etc.)	Description of Change Made	Name of Person making the Change
11/17/2021		Init	aeg
11/18/2021	2,4	Update for new BIRNS rev B drawing	aeg