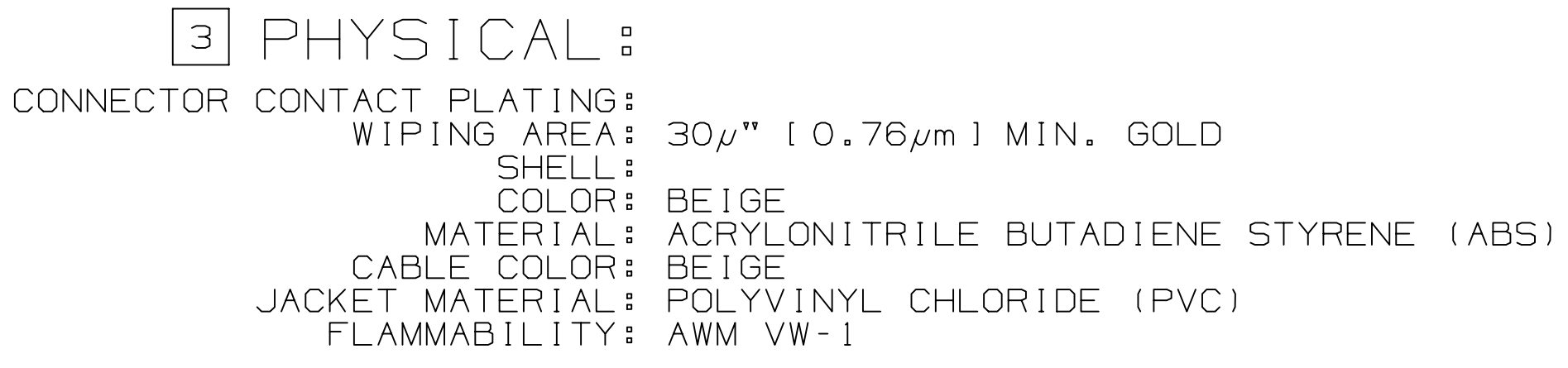


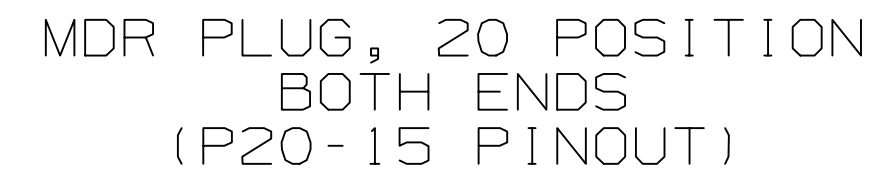
- * SUPPORTS NEW VESA™/DEP STANDARD FOR 20 POSITION MDR AT HOST DEVICE.
- * LCD MONITOR ASSEMBLY FOR PanelLink®/TMDS™ INTERFACE.
- * EACH DIFFERENTIAL TWIN-AX PAIR HAS FOIL SHIELD AND DRAIN WIRE.
- * ENTIRE CABLE BUNDLE IS SHIELDED WITH FOIL AND BRAID FOR ADDITIONAL SIGNAL PROTECTION.
- * RUGGED MDR RIBBON TYPE CONTACT.
- * QUICK RELEASE LATCHES.

1. REGULATORY INFORMATION:
VISIT 3M.com/regs
2. "VESA" IS A TRADEMARK OF VIDEO
ELECTRONICS STANDARDS
ASSOCIATION CORPORATION.
"PANELLINK" AND "TMDS" ARE
TRADEMARKS OF SILICON IMAGES,
INC.
3. IN THE EVENT OF CONFLICT
BETWEEN THIS DATA AND THAT
CONTAINED IN THE PRODUCT
SPECIFICATION, THE PRODUCT
SPECIFICATION TAKES PRECEDENT.



VOLTAGE RATING: 30V
CURRENT RATING: 1A
INSULATION RESISTANCE: $>1 \times 10^8 \Omega$ AT 100 V_{DC}
WITHSTANDING VOLTAGE: 350V_{RMS} FOR 1 MINUTE
INDIVIDUALLY SHIELDED TWISTED PAIRS:
CHARACTERISTIC IMPEDANCE: 100±10Ω
CONDUCTOR SIZE: 28 AWG STRANDED
PROPAGATION VELOCITY: 1.25 ns/ft (4.1 ns/m)

TEMPERATURE RATING: -20° C TO +75° C



LENGTH: _____

100	=	1	METER
200	=	2	METERS
300	=	3	METERS
500	=	5	METERS
A00	=	10	METERS

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

UL
UL FILE NO: E86982

DIMENSIONS: MM [INCHES] [INCHES] IS FOR REF. ONLY		B 107092 REVISE LENGTH TOL AND REDRAWN		SEP 26, 2022 JNC FJR	
A AT1895 MAY 22, 2006 REMOVE PLATING OPTIONS		PLM PLM			
DESIGN REFERENCE NEXT ASSEMBLY		REV ECO ISSUE DATE AND DESCRIPTION		DRFT CHKD	
ADDRESS CODES		DRFT CASTIGLIONE		DATE SEP 26, 2022	
CHKD		DATE		APPVL F. RODRIGUEZ	
DIVISION		DIVISION CODE DEPP		DATE SEP 26, 2022	
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED		© 3M COPYRIGHT 2025 This document and the information it contains are 3M property and may not be reproduced or further distributed without written permission, or used to disclose other than for 3M authorized purposes. All rights reserved.	
		INCHES .0 .00 .000 ± .0000 ±		TITLE MINI D RIBBON (MDR) CABLE ASS'Y, 14520-EZAB-XXX-OEC	
THIRD ANGLE PROJECTION		MILLIMETERS 0 ±.2 .0 ±.01 .00 ±.010 .000 ±0.005		CAGE NUMBER D 78-5100-0858-0	
INTERPRET PER ASME Y14.5 - 2018		MAX SURFACE ROUGHNESS RAL SURFACES ✓ □ MARKED ONLY		REV. B	
082		MODEL MDR		DET. LISTS	
		YES YES NO		SHT 1 OF 2	

8

7

6

5

4

3

2

1

3M™ MINI D RIBBON (MDR) CABLE ASSEMBLY, 14520-EZAB-XXX-OEC

.050" HIGH SPEED DIGITAL DATA TRANSMISSION SYSTEM - 20 TO 20 POSITION

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement or repair of the 3M product or refund of the purchase price.

Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by applicable law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

Disclaimer: For industrial use only. Not intended, labeled or packaged for consumer sale or use.

3M Company

Electronics Materials Solutions Division

13011 McCallen Pass, Bldg. C

Austin, TX 78753-5380

1-800-225-5373

www.3M.com/interconnect

MDR-DFP 20 TO 20 POSITION,
PINOUT P20-15 (REV. 0.4a)
(NOTE: CABLE ASSEMBLY IS REVERSABLE)

DFP TRANSMITTER, Tx
(HOST)

RECEIVER, Rx
(MONITOR)

PIN NUMBER	SIGNAL		PIN NUMBER	SIGNAL
1	Tx 1+		1	Rx 0-
2	Tx 1-		2	Rx 0+
3	Tx 1 shld		3	Rx 0 shld
4	Tx Clk shld		4	Rx 2 shld
5	Tx Clk+		5	Rx 2-
6	Tx Clk-		6	Rx 2+
7	DDC gnd		7	DDC/SCL
8	DDC +5 Vdc		8	DDC/SDA
9	NC		9	NC
10	NC		10	NC
11	Tx 2+		11	Rx Clk-
12	Tx 2-		12	Rx Clk+
13	Tx 2 shld		13	Rx Clk shld
14	Tx 0 shld		14	Rx 1 shld
15	Tx 0+		15	Rx 1-
16	Tx 0-		16	Rx 1+
17	NC		17	NC
18	sense		18	sense
19	DDC/SDA		19	DDC +5 Vdc
20	DDC/SCL		20	DDC gnd

NOTE: WIRING DIAGRAM IS NOT PIN 1 TO PIN 1.

8

7

6

5

4

3

2

1

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION

INTERCONNECT SOLUTIONS

http://www.3M.com/interconnect

3M IS A TRADEMARK OF 3M COMPANY.

FOR TECHNICAL, SALES OR ORDERING

INFORMATION CALL 800-225-5373

DESIGN REFERENCE

NEXT ASSEMBLY

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DFP	CASTIGLIONE	SEP 26, 2022	MFG	DATE
CHKD	DATE	APPR	DATE	DATE
		F. RODRIGUEZ	SEP 26, 2022	

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

MAX SURFACE ROUGHNESS

ALL SURFACES MARKED ONLY

SCALE

TOLERANCES EXCEPT AS NOTED

INCHES

MILLIMETERS

ANGLES

3M

3M Center
St. Paul,
MN 55144

© 3M COPYRIGHT 2025
This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.

TITLE

MINI D RIBBON (MDR) CABLE ASS'Y,
14520-EZAB-XXX-OEC

CAGE NUMBER

SIZE

DRAWING NO.

REV.

MODEL

MDR

DET

ISTS

YES

NO

SHT 2 OF 2

78-5100-0858-0

DRAWING NUMBER

Revision

B

107049

SEP 26, 2022

REVISE LENGTH TOL AND REDRAWN

JNC

FJR

AT1895

MAY 22, 2006

REMOVE PLATING OPTIONS

PLM

PLM