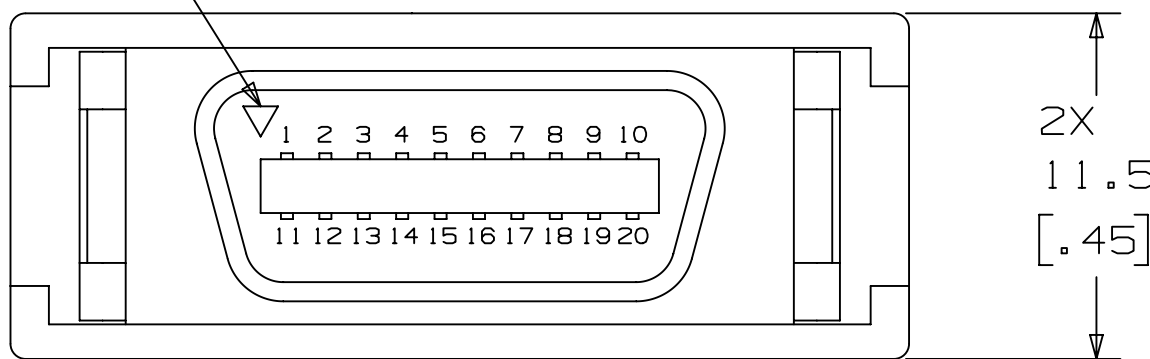
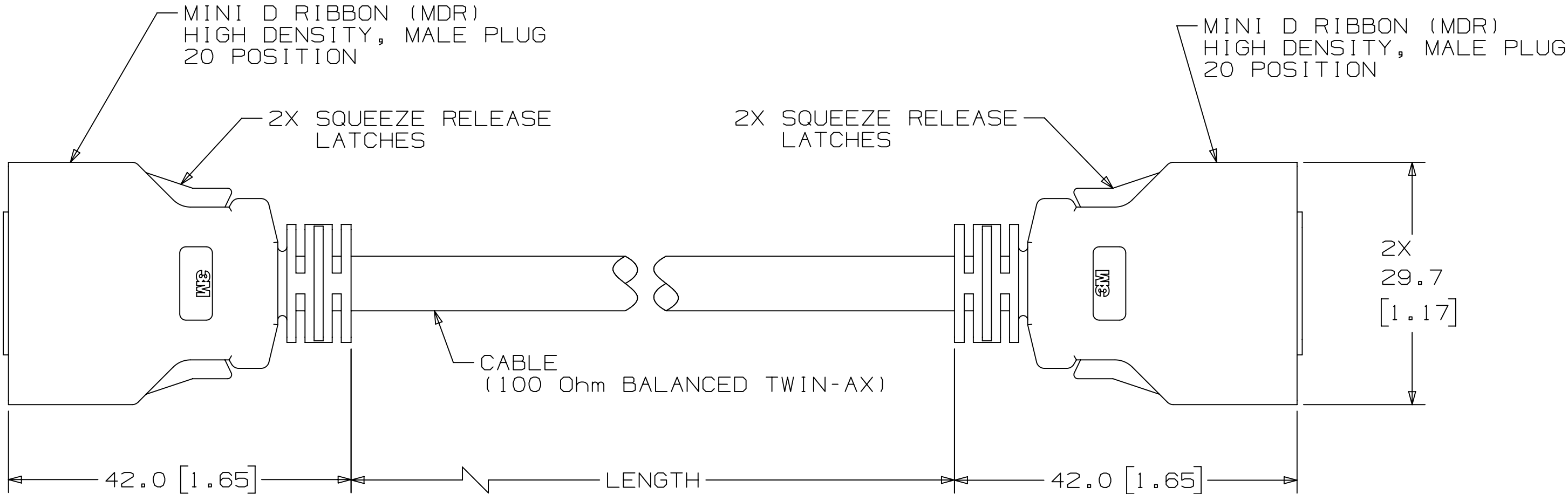


3M™ MINI D RIBBON (MDR) CABLE ASSEMBLY, 14520-EZAB-XXX-OEC
.050" HIGH SPEED DIGITAL DATA TRANSMISSION SYSTEM - 20 TO 20 POSITION

- * 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.

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



MDR PLUG, 20 POSITION
BOTH ENDS
(P20-15 PINOUT)

3 PHYSICAL :
CONNECTOR CONTACT PLATING:
WIPING AREA: 30μ" [0.76μm] MIN. GOLD
SHELL:
COLOR: BEIGE
MATERIAL: ACRYLONITRILE BUTADIENE STYRENE (ABS)
CABLE COLOR: BEIGE
JACKET MATERIAL: POLYVINYL CHLORIDE (PVC)
FLAMMABILITY: AWM VW-1

3 ELECTRICAL :
VOLTAGE RATING: 30V
CURRENT RATING: 1A
INSULATION RESISTANCE: >1 x 10⁹Ω AT 100 V_{DC}
WITHSTANDING VOLTAGE: 350V_{RMS} FOR 1 MINUTE
INDIVIDUALLY SHIELDED TWISTED PAIRS:
CHARACTERISTIC IMPEDANCE: 100±10Ω
CONDUCTOR SIZE: 28 AWG STRANDED
PROPOGATION VELOCITY: 1.25 ns/ft [4.1 ns/m]

3 ENVIRONMENTAL :
TEMPERATURE RATING: -20° C TO +75° C

ORDERING INFORMATION
14520-EZAB-XXX-OEC

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

TOLERANCE FOR LENGTH:
0.15 TO 1.5 METERS = -0/+0.05 METERS.
GREATER THAN 1.5 METERS = -0%/+3% METERS.

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

UL
UL FILE NO: E86982

DIMENSIONS: MM [INCHES]
[INCHES] IS FOR REF. ONLY

DESIGN REFERENCE	NEXT ASSEMBLY
ACROSS CODES	DIVISION CODE DEPP
DO NOT SCALE DRAWING	TOLERANCES EXCEPT AS NOTED
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018
MAX. SURFACE ROUGHNESS	ALL SURFACES
MARKED ONLY	ANGLES

B	107049	SEP 26, 2022	JNC	FJR
A	AT1895	MAY 22, 2006	PLM	PLM
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	CATIGLIONE	SEP 26, 2022	DATE	DATE
CHKD	DATE	APPRV. F. RODRIGUEZ	DATE	SEP 26, 2022
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MINI D RIBBON (MDR) CABLE ASS'Y, 14520-EZAB-XXX-OEC				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D	78-5100-0858-0	B		
MODEL	MDR	LISTS	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.

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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.

DESIGN REFERENCE

NEXT ASSEMBLY

REV

ECO

ISSUE DATE AND DESCRIPTION

DRFT

CHKD

DESIGN CODES

DFP CASTIGLIONE

DATE

SEP 26, 2022

WFS

DATE

SEP 26, 2022

CHKD

DATE

SEP 26, 2022

APPR

F. RODRIGUEZ

DATE

SEP 26, 2022

DIVISION

DIVISION CODE

DEPP

DO NOT SCALE DRAWING

SCALE

TOLERANCES EXCEPT AS NOTED

INCHES

0 ±

.00 ±

.008 ±

.0000 ±

THIRD ANGLE PROJECTION

INTERPRET PER

ASME Y14.5 - 2018

MILLIMETERS

0 ±2

.0 ±0.1

.00 ±0.10

.000 ±0.005

MAX SURFACE ROUGHNESS

ALL SURFACES

MARKED ONLY

ANGLES ±

3M

3M Center
St. Paul,
MN 55144

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TITLE

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

CAGE NUMBER

SIZE

DRAWING NO.

REV.

NUMBER

D

78-5100-0858-0

B

MODEL

MDR

DET

Lists

YES

NO

SHT 2 OF 2

8

7

6

5

4

3

2

1

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