INSTALLATION GUIDE
FIBER *EXPRESS* ULTRA HD
PATCH PANEL HOUSING - 4U/4U-23"/2U

BELDEN
SENDING ALL THE RIGHT SIGNALS

A) GENERAL

4U PATCH PANEL SHOWN AS REFERENCE
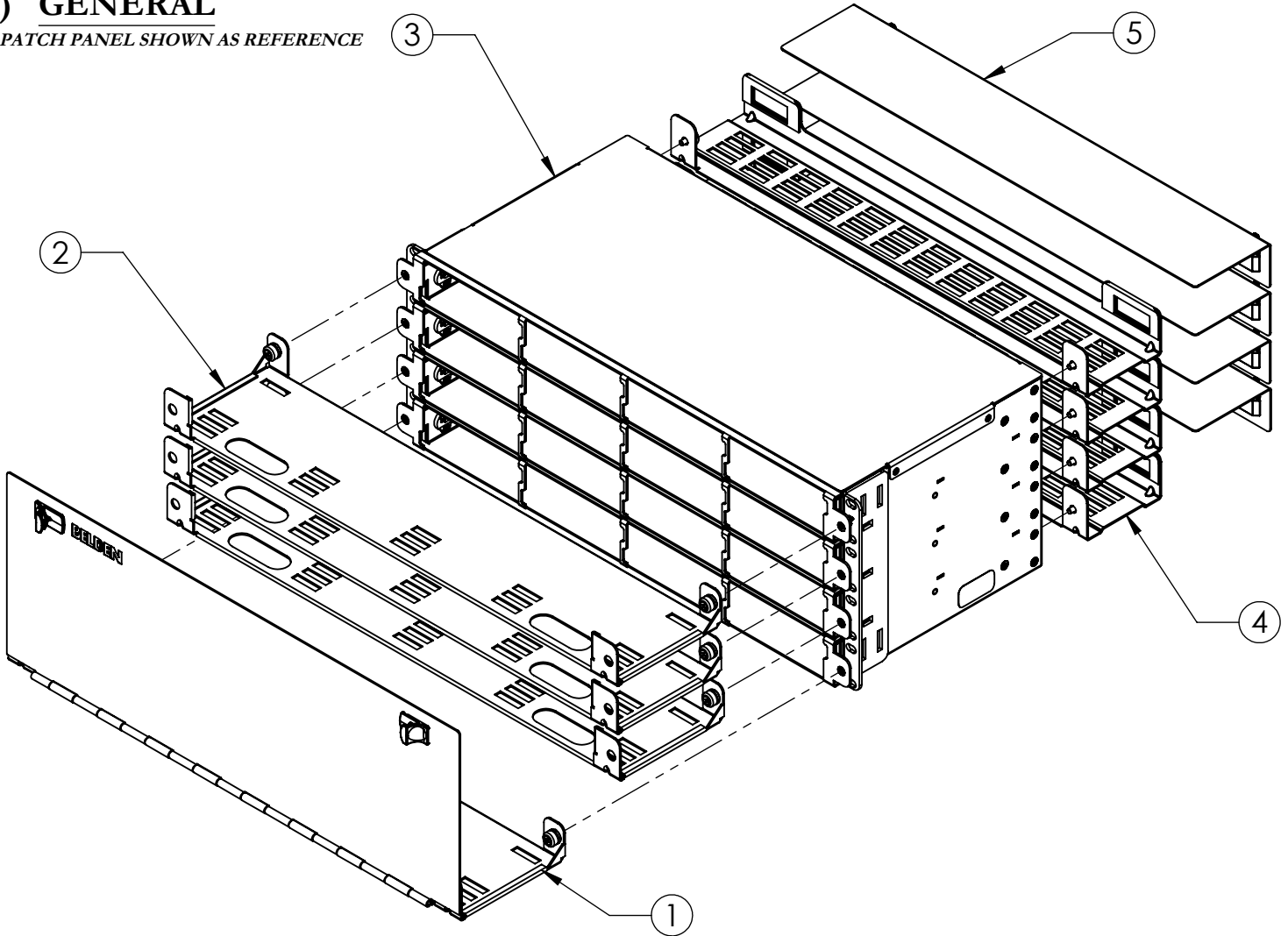
BILL OF MATERIAL

ITEM NO.	DESCRIPTION	2U QTY.	4U QTY.	4U-23" QTY.
1	PATCH CORD TRAY ASSY.	1	1	1
2	UPPER PATCH CORD TRAY ASSY.	1	3	3
3	HOUSING	1	1	1
4	CABLE TRAY ASSY.	2	4	4
5	CABLE TRAY COVER	2	4	4
6	HARDWARE KIT (see contents)	1	1	1

HARDWARE KIT CONTENTS

DESCRIPTION	2U QTY.	4U QTY.	4U-23" QTY.
MX100116 SCREW (10-32)	4	4	4
MX100051 SCREW (12-24)	4	4	4
KURLY LOCK	8	16	16
WIRE MARKER (Blue)	2	4	5
NYLON CABLE TIE	12	24	24
VELCRO STRAP	4	8	10
IDENTIFICATION LABEL	2	2	2

B) PATCH PANEL FEATURES

TILTING DRAWER
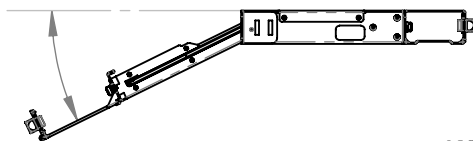
REMOVABLE DRAWER
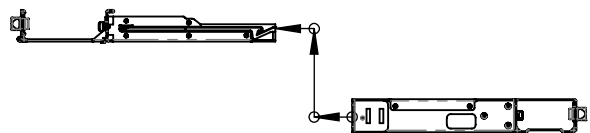
NOTE: Install and manage from top to bottom.

⚠ **Laser Radiation**

LASER RADIATION
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS
CLASS 3A LASER PRODUCT
LOCATION TYPE
RESTRICTED / CONTROLLED

Optical fibers transmit laser radiation of sufficient magnitude to cause injury to personnel and caution must be exercised to avoid exposure. This caution applies to any point in the system where the laser signal can be "accessed" (for example, at the bare fiber ends).

C) CABLE PREPARATION

1. For correct fiber cable preparation, refer de figure 1 and figure 2.
2. Mark outer armor (jacket) at distance"A" from end of the cable
   (if there is no outer armor (jacket), go to step 4) for distribution cable.
3. Remove the outer cable armor (jacket) up to mark and, if necessary, clean surface.
4. Distribution cable:
   1. Mark outer armor of distribution cable at distance "B".
   2. Remove the outer cable armor (jacket) up to mark and, if necessary, clean surface
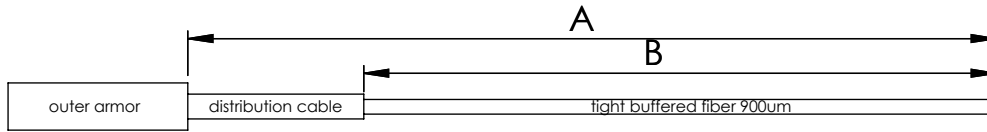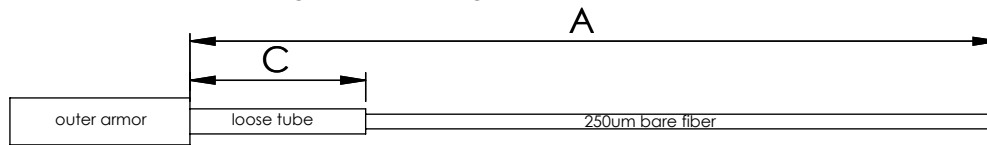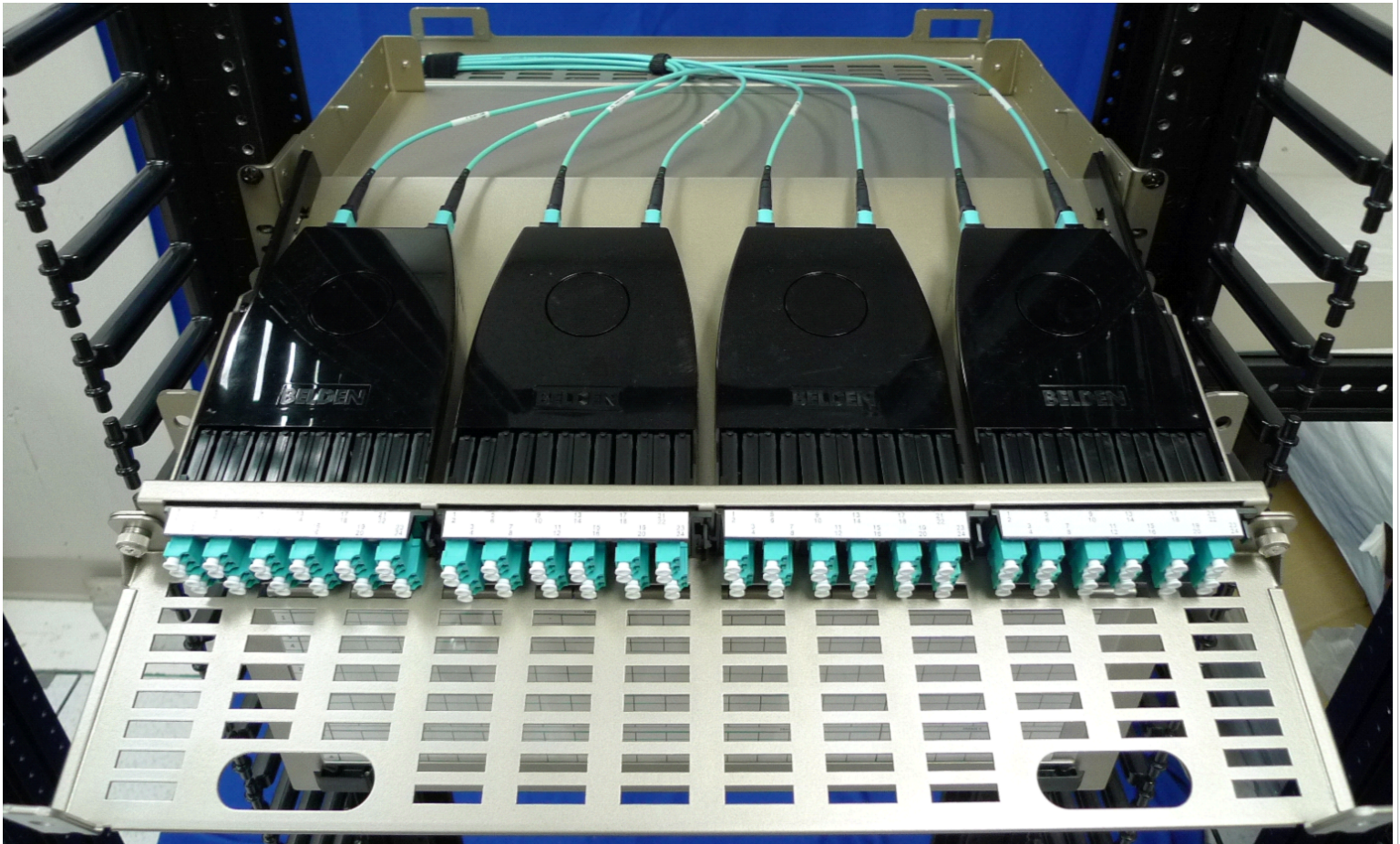

Figure 1: Cable length for Distribution cable

Figure 2: Cable length for Loose Tube cable

TYPE OF CABLE	A	B	C
DISTRIBUTION CABLE	1.40m (55in)	1.22m (48in)	-
LOOSE TUBE	1.27m (50in)	-	0.37m (14.5in)

TRUNK CABLE (MPO)	0.61m (24in)

D) USING PRE-TERMINATED CASSETTES: MPO TRUNK CABLES

4U PATCH PANEL SHOWN AS REFERENCE

E) USING TIGHT BUFFER : 900um TERMINATIONS

4U PATCH PANEL SHOWN AS REFERENCE

NOTE: Suggested management.

BELDEN
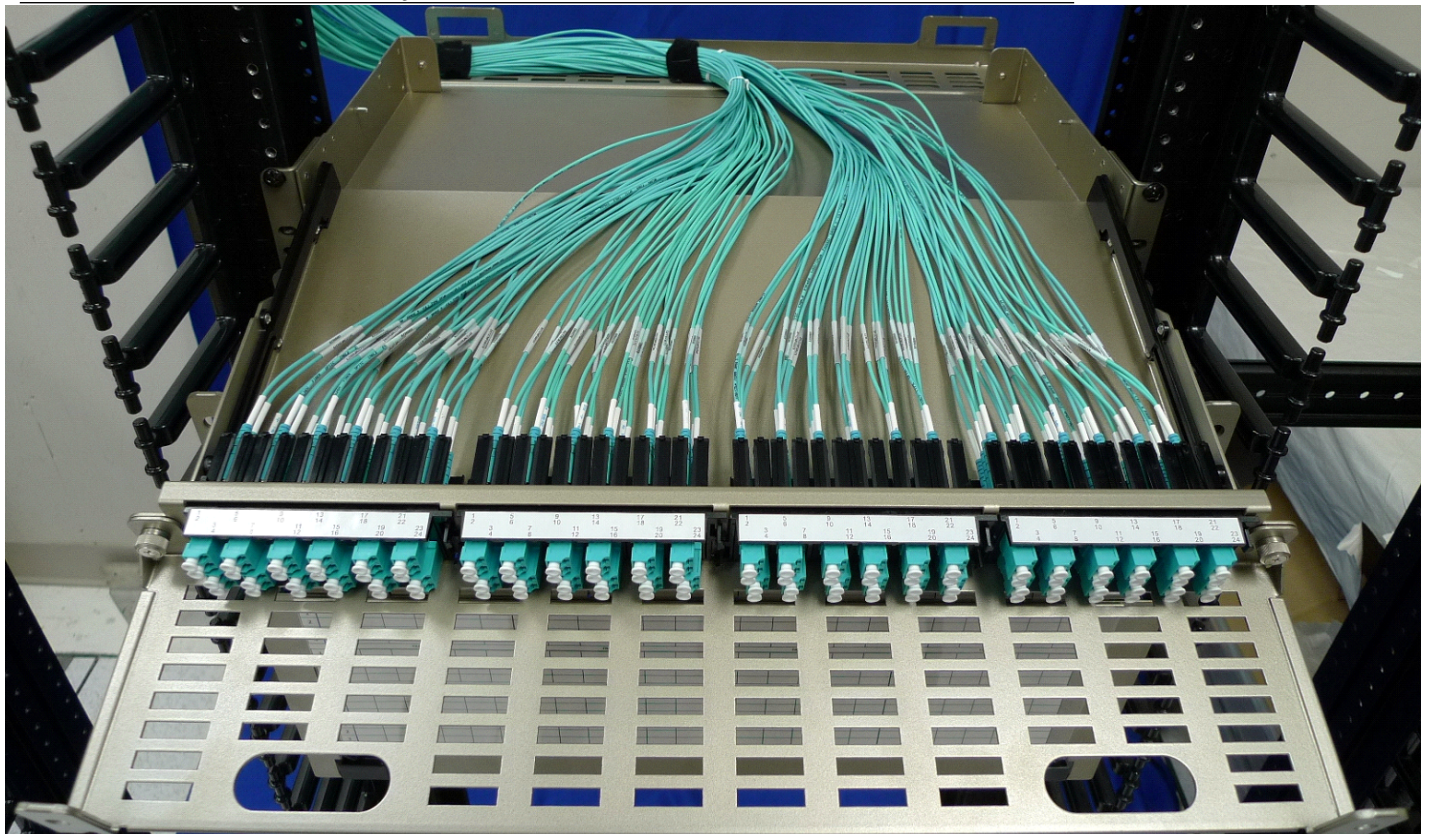SENDING ALL THE RIGHT SIGNALS

F) USING MPO TRUNK CABLES

4U PATCH PANEL SHOWN AS REFERENCE
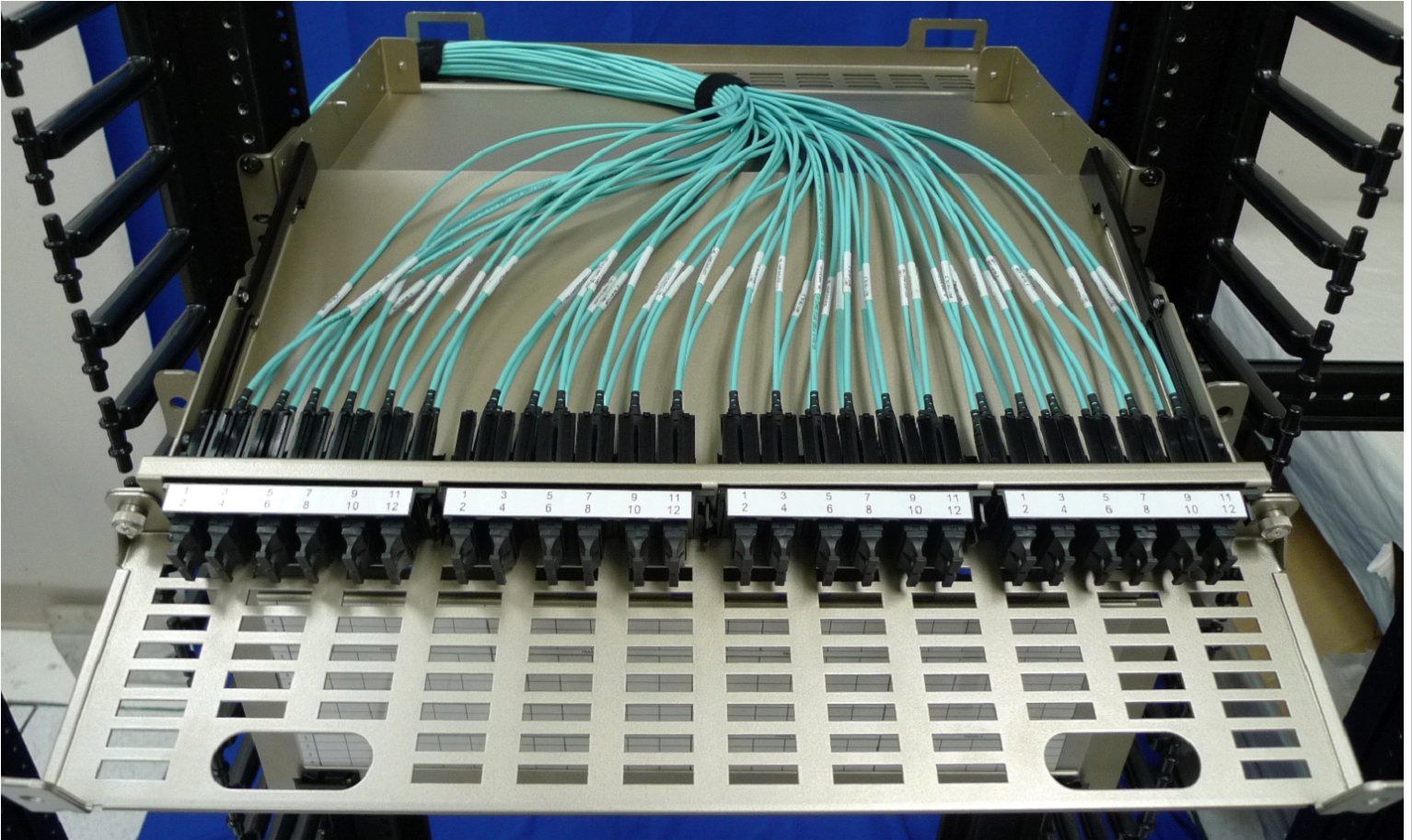
G) USING LC DUPLEX JACKETED TERMINATIONS: 2mm