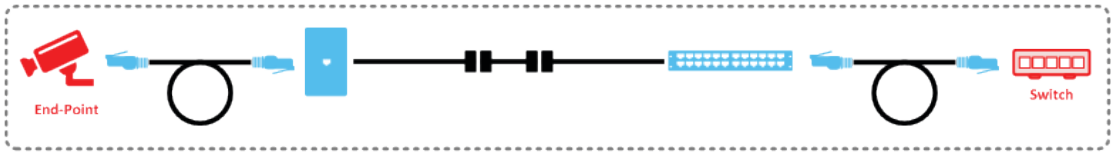
BELDEN
SENDING ALL THE RIGHT SIGNALS

Direct Connect with REVConnect FlexPlug Comparison

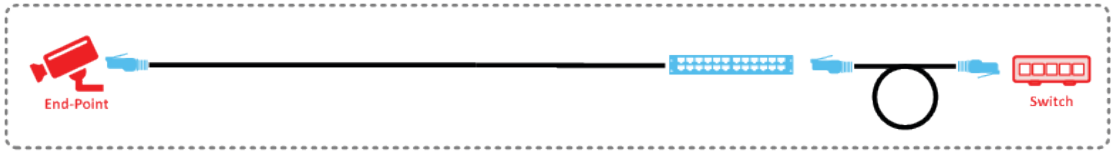
A new type of topology – known as "modular plug terminated link" (MPTL) – was recently included in ANSI/TIA-568.2-D. For the first time, RJ45 plugs can be terminated directly onto horizontal cabling and measured in the field. Also called "direct connect," this method allows a variety of devices, such as wireless access points, surveillance cameras and HDBaseT monitors, to be plugged without the need for an outlet and patch cord.

In this kind of installation, the new REVConnect FlexPlug eliminates compatibility questions when connecting devices. It works with any IoT device that uses an RJ45 plug. Using the award-winning REVConnect termination method, FlexPlugs can be deployed in applications where the size of a typical field-terminated plug inhibits direct connect to IoT devices due to plug size and cable routing constraints.

Traditional Connection



Direct Connection



To test the channel, follow TIA guidelines. Belden's Field-Mount Plug Test Adapter (Coupler), AX104552, can be used with your permanent link adapter to test a cable terminated with a plug.

Direct Connect with REVConnect FlexPlug			Traditional Field-Terminated Plug	
✓	Eliminates jack, biscuit box and patch cord for fast installation with fewer components	**Installation Efficiency**	✗	Requires many components: jack, biscuit box and patch cord
✓	Less than 1% rework	**Rework**	✗	Up to 5% rework
✓	Terminates with REVConnect Tool (same as jacks and plugs)	**Termination Assurance**	✗	Terminates with proprietary 110-style tool
✓	Can be deployed in tight spaces	**Application Flexibility**	✗	Direct-connect method inhibited due to plug size and cable routing constraints
✓	Works with any IoT device with an RJ45 plug – no nearby outlet needed	**Compatibility**	✗	Works with IoT devices in certain applications where outlets are available

REVConnect FlexPlug - Cost Comparison

Set-Up Costs	Direct Connect with REVConnect FlexPlug	Traditional Field-Terminated Plug
Horizontal Cable	$1.40	$0
Jack	$0	$11.30
Biscuit Box	$0	$2.00
Patch Cord (1m)	$0	$11.50
Plug	$12.35	$0
Total Material Costs	**$13.75**	**$24.80**
Install Time per plug ($70/hour)	70 sec.	140 sec.
Labor Cost per plug	$1.75	$3.50
Total Cost per plug	**$15.50**	**$28.30**
Installation Time for 200 Devices (hrs)	3.9	8.2
Rework for Terminations	2	10
Project Install Cost (USD)	**$353.50**	**$735.00**
Total Project Cost	**$3,103.50**	**$5,695.00**
Cost Per Plug	**$15.52**	**$28.48**

**Projected savings of over $13 per plug*