

# Low-Profile Connectors Compact & Lightweight Solution



## INTRODUCTION

Our low-profile connectors are a compact and lightweight solution for applications where weight, space, and/or EMI shielding are critical. By utilizing plated composite thermoplastic materials, they offer approximately 15 - 20% weight savings. Comparable in size but higher in density than D-subminiature configurations, these connectors are:

- » A field-repairable option for pre-wired connectors of similar size & density
- » Ideal for use in applications for signal, USB, Ethernet, and audio connections
- » Available in customizable materials (i.e., aluminum, steel, and composite)
- » Available with 50, 15, 26, and 44 positions

FEATURES	BENEFITS
Utilizes standard MIL-C-39029 contacts	<ul style="list-style-type: none"> <li>• Faster and more economical solution compared to custom contacts</li> <li>• Standard crimp, insertion, and removal tools can be used, which can drive cost savings</li> <li>• Reduced lead time since contacts are readily available off-the-shelf from various sources</li> <li>• Crimp Contacts Allow for field repair/installation, saving time and money</li> </ul>
Compact and lightweight	<ul style="list-style-type: none"> <li>• Up to 60% higher contact density than a D-Sub connectors with a similar footprint</li> <li>• 30% smaller in width and height than standard D-Sub connector/backshell assemblies</li> <li>• 30% lighter than standard D-Sub connector/backshell assemblies</li> </ul>
High-density design	<ul style="list-style-type: none"> <li>• Field repairable, replaceable insert, and contact technology vs a pre-wired, potted, non-repairable assembly system as found in Micro D-Subminiature connectors</li> <li>• Results in a better-performing contact that carries more current and voltage per contact line on a similar footprint and pin count as a Micro D-Subminiature connector</li> </ul>
Excellent shell-to-shell conductivity	<ul style="list-style-type: none"> <li>• Better-performing grounding path than standard D-Sub/Micro-D connectors</li> </ul>
High-temperature capable (up to 175 °C)	<ul style="list-style-type: none"> <li>• Compliant with aerospace flammability and toxicity requirements</li> </ul>

## SUGGESTED APPLICATIONS

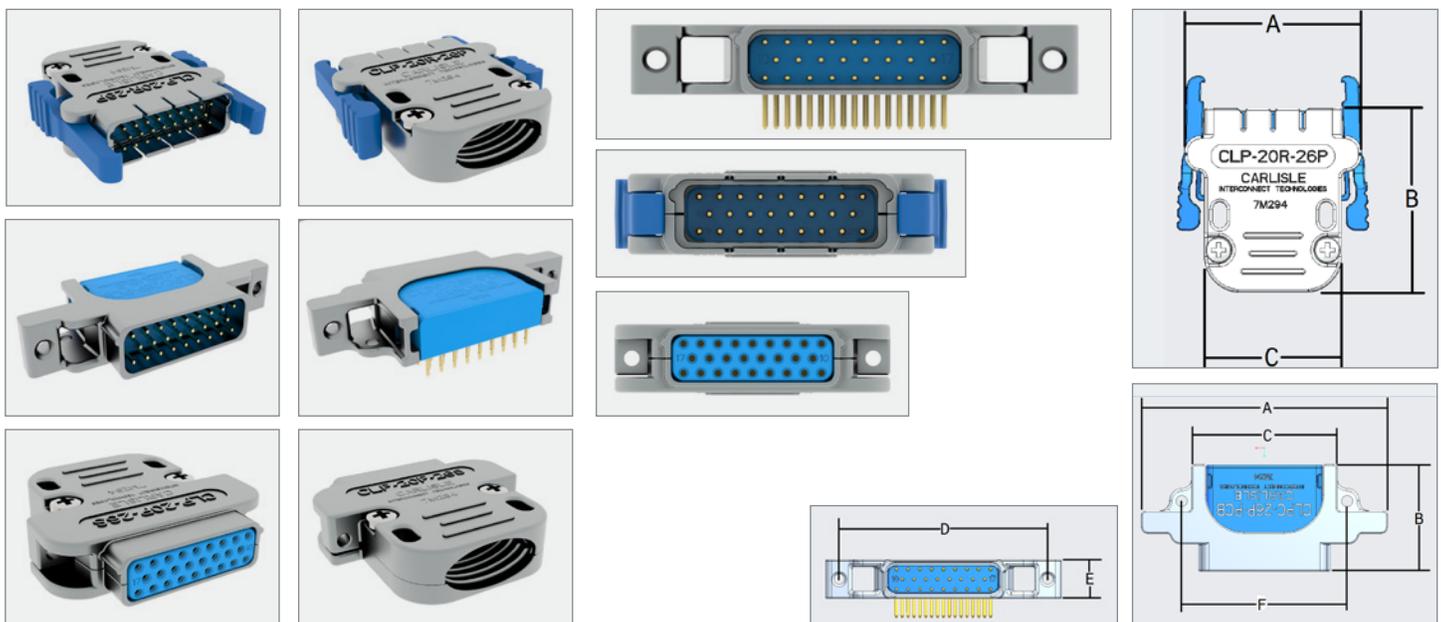
- » High-speed data transfer, including USB, Ethernet, and audio connections
- » EMI and weight-sensitive environments
- » Commercial and military electronics
- » Ka-band, Ku-band, or Ka/Ku SATCOM system installations
- » Airline fleet, VIP, or special missions applications

# Low-Profile Connectors

## SPECIFICATIONS & PERFORMANCE

Part Number	Description	Dimensions						Weight	Cable Entry Diameter
		A	B	C	D	E	F		
<b>Jackscrew Latching Configuration</b>									
CLPCC22SC-50P-PCB*	50 pos. PCB plug connector	2.06"	0.857"	1.401"	1.72"	0.41"	N/A	14.5 g	N/A
CLPCC22-50P-CS*	50 pos. cable side plug connector	1.38"	0.37"	N/A	N/A	0.41"	N/A	5 g	N/A
CLPCC22-50S-CS*	50 pos. cable side receptacle connector	1.38"	0.59"	N/A	N/A	0.41"	N/A	5.5 g	N/A
CLPCBS-SC-15XP-S*	50 pos. receptacle bksh, straight exit	1.92"	1.81"	1.555"	1.72"	0.45"	N/A	16.5 g	15 mm
CLPCBS-SC-15XP-60*	50 pos. receptacle bksh, 60° exit	1.92"	1.74"	1.555"	1.72"	0.45"	N/A	15 g	15 mm
CLPCBS-PC-15XP-S*	50 pos. plug bksh, straight exit	1.92"	1.74"	1.53"	1.72"	0.45"	N/A	13.5 g	15 mm
CLPCBS-PC-15XP-60*	50 pos. plug bksh, 60° exit	1.92"	1.81"	1.53"	1.72"	0.45"	N/A	13.5 g	15 mm
<b>Isometric with Latching Arms Configuration</b>									
CLP-10P-15P-PCB**	15 pos. PCB plug connector	1.59"	0.90"	0.83"	1.36"	0.33"	N/A	6.1 g	N/A
CLP-10P-15P**	15 pos. cable side plug connector	0.76"	1.43"	0.76"	N/A	0.40"	N/A	14.0 g	12 mm
CLP-10R-15S**	15 pos. cable side receptacle connector	0.76"	1.43"	0.76"	N/A	0.40"	N/A	11.5 g	12 mm
CLP-20P-26P-PCB**	26 pos. PCB plug connector	2.00"	0.86"	1.19"	1.77"	0.33"	1.35"	9.0 g	N/A
CLP-20P-26P**	26 pos. cable side plug connector	0.99"	0.63"	0.94"	N/A	0.32"	N/A	16.8 g	12 mm
CLP-20R-26S**	26 pos. cable side receptacle connector	0.99"	0.38"	0.94"	N/A	0.32"	N/A	16.0 g	12 mm
CLP-40P-44P-PCB**	44 pos. PCB plug connector	2.60"	0.90"	1.79"	2.37"	0.33"	N/A	14.0 g	N/A
CLP-40P-44P**	44 pos. cable side plug connector	2.20"	1.53"	1.76"	1.98"	0.40"	N/A	19.3 g	15 mm
CLP-40R-26S**	44 pos. cable side receptacle connector	2.10"	1.53"	1.76"	N/A	0.40"	N/A	25.0 g	15 mm

\*Items in production \*\*Available designs



Low-Profile Connectors with latching arms configuration. Product datasheets, and test reports available upon request.



See our complete line of Connectors & Accessories at:  
[CarlisleIT.com/products/connectors-accessories](http://CarlisleIT.com/products/connectors-accessories)

+1 (800) 458.9960  
[Sales@CarlisleIT.com](mailto:Sales@CarlisleIT.com)