

Service post connectors



Type DS – Service post connectors, short stud application

The Blackburn line of service post connectors is designed for applications including steel structure, fence post or transformer grounding involving one or two cables. Service posts can also be used to tap one or two cables from bus bar.

Construction and ratings

Bolts used in the service post are machined from high-conductivity bronze alloy while the nuts are cold-formed from high-strength, corrosion-resistant copper alloy. Pressure bars are copper through 4/0 size, while copper alloy is used for 350 kcmil size and above. Bolts and nuts are of the traditional Blackburn hex design for easy installation.

Service post connectors are available in sizes accommodating AWG copper conductor ranges of #12–500 kcmil stranded (4 mm²–240 mm²) and #12–#2 solid (4 mm²–35 mm²).

The line includes both short and long stud versions for single and double conductor connectors.

- For copper to copper connections
- For grounding of steel structures, fence posts or transformers using one or two cables
- For tapping one or two cables from bus bar
- Hex design bolts are machined from high-conductivity bronze alloy
- Nuts and pressure bars are cold-formed from high-strength copper or copper alloy



Cat. no.		Conductor range stranded AWG (mm ²)		Conductor range solid AWG (mm ²)		Maximum diameter range (in.)	Stud size (in.)
Double conductor	Single conductor	Max.	Min.	Max.	Min.		
SP0DS	SP0SS	#8 (6)	#12 (4)	#8 (6)	#12 (4)	0.146–0.080	¼–20 x ½
SP1DS	SP1SS	#7 (10)	#10 (6)	#6 (10)	#10 (6)	0.170–0.102	¼–20 x ½
SP2DS	SP2SS	#5 (16)	#10 (6)	#4 (16)	#10 (6)	0.217–0.102	5/16–18 x 5/8
SP3DS	SP3SS	#3 (25)	#10 (6)	#2 (35)	#10 (6)	0.271–0.102	3/8–16 x 5/8
SP4DS	SP4SS	#1 (35)	#8(6)	#2 (35)	#8 (10)	0.332–0.128	3/8–16 x 5/8
SP5DS	SP5SS	1/0 (50)	#2 (35)	#2 (35)	–	0.385–0.259	½–13 x ¾
SP6DS	SP6SS	2/0 (70)	#2 (35)	#2 (35)	–	0.443–0.258	½–13 x ¾
SP8DS	SP8SS	4/0 (95)	#1 (35)	–	–	0.570–0.289	5/8–11 x 1
SP9DS	SP9SS	350 (150)	1/0 (70)	–	–	0.715–0.373	5/8–11 x 1
SP10DS	SP10SS	500 (240)	3/0 (95)	–	–	0.840–0.464	¾–10 x 1½

Service post connectors



Type SP – Service post connectors, long stud

- For copper to copper connections
- For grounding of steel structures, fence posts or transformers using one or two cables
- For tapping one or two cables from bus bar
- Hex design bolts are machined from high-conductivity bronze alloy
- Nuts and pressure bars are cold-formed from high-strength copper or copper alloy
- Pressure bars are copper through 4/0 AWG size; copper alloy is used for 350 kcmil size and above
- Available in sizes accommodating AWG copper conductor ranges of #12–500 kcmil stranded (4 mm²–240 mm²) and #12–#2 solid (4 mm²–35 mm²)
- Line includes single conductor and double conductor connectors



Cat. no.		Conductor range stranded AWG (mm ²)		Conductor range solid AWG (mm ²)		Maximum diameter range (in.)	Stud size (in.)
Double conductor	Single conductor	Max.	Min.	Max.	Min.		
SP0DL	SP0SL	#8 (6)	#12 (4)	#8 (6)	#12 (4)	0.146–0.080	¼–20 x 1
SP1DL	SP1SL	#7 (10)	#10 (6)	#6 (10)	#10 (6)	0.170–0.102	¼–20 x 1
SP2DL	SP2SL	#5 (16)	#10 (6)	#4 (16)	#10 (6)	0.217–0.102	5/16–18 x 1
SP3DL	SP3SL	#3 (25)	#10 (6)	#2 (35)	#10 (6)	0.271–0.102	3/8–16 x 1½
SP4DL	SP4SL	#1 (35)	#8 (6)	#2 (35)	#8 (10)	0.332–0.128	3/8–16 x 1½
SP5DL	SP5SL	1/0 (50)	#2 (35)	#2 (35)	–	0.385–0.259	½–13 x 1¼
SP6DL	SP6SL	2/0 (70)	#2 (35)	#2 (35)	–	0.443–0.258	½–13 x 1¼
SP8DL	SP8SL	4/0 (95)	#1 (35)	–	–	0.570–0.289	5/8–11 x 1½
SP9DL	SP9SL	350 (150)	1/0 (70)	–	–	0.715–0.373	5/8–11 x 1½
SP10DL	SP10SL	500 (240)	3/0 (95)	–	–	0.840–0.464	¾–10 x 1¾