

Protected from weld spatter by TPE jackets and silicone tubes

CABLES AND SPLITTERS FOR HARSH WELDING ENVIRONMENTS

In a welding environment, a cordset's life span can be short. Weld spatter can burn through the cable, or the accumulated weight of weld debris can pull the cable out of the overmold. Balluff offers cables with Thermoplastic Elastomer (TPE) jackets, which offer weld spark resistance and a high flex life rating (>10 million cycles).

Then Balluff adds a silicone tube over the TPE cable and molds the tube into the connector. This creates an insulating air pocket that gives the cordset an even higher temperature resistance. The silicone tube also prevents occasional weld spatter and sparks from burning through the cable. The cable's locking nut is coated with PTFE, preventing spatter buildup that can make it impossible to disconnect a damaged cordset.

Cordsets need protection near the sensor, but I/O blocks mounted in a weld area

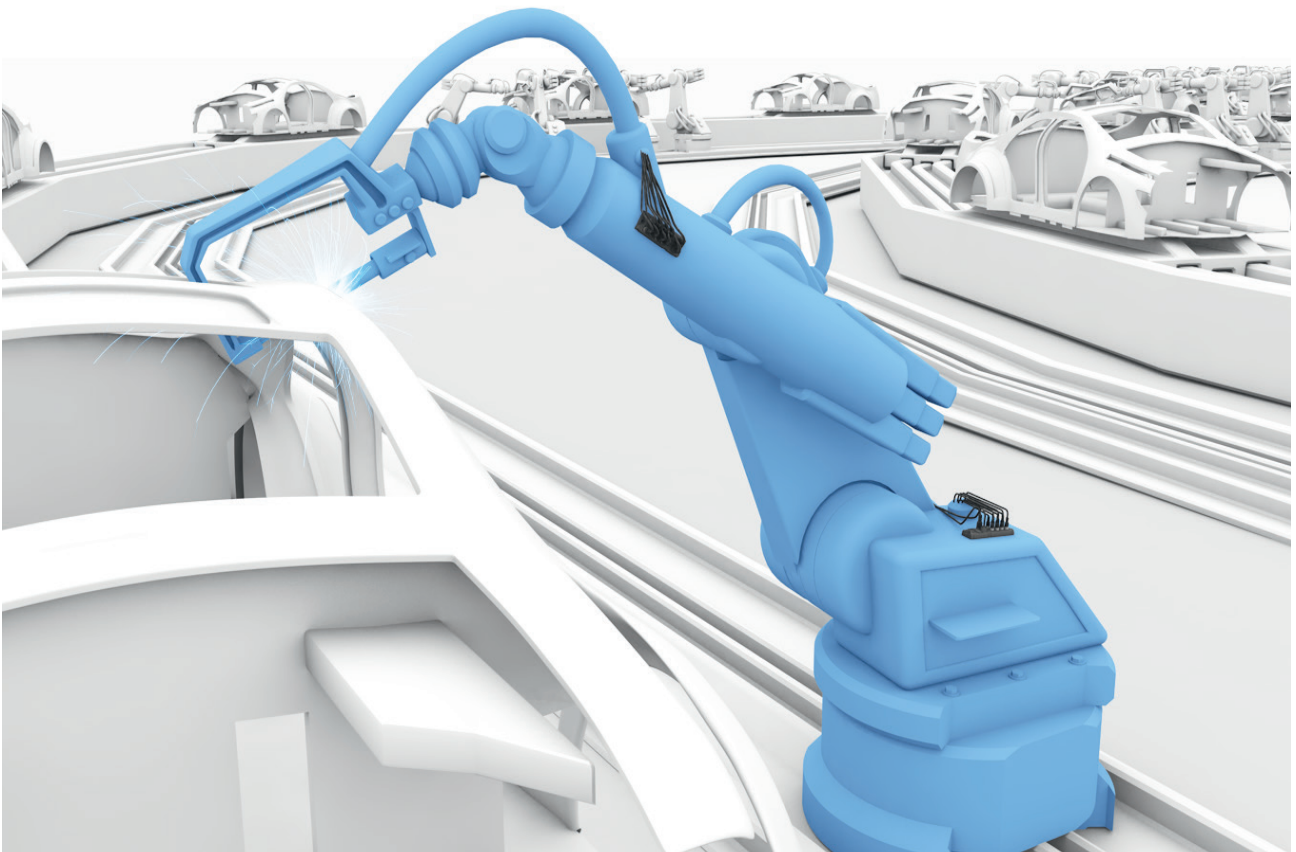
need protected cables as well. All Balluff I/O blocks have dual I/O on each port. To access both I/O you need a splitter to break out the two separate legs. Balluff's new splitter cables offer the same TPE jackets with added silicone tubes molded into the connectors. Now you can fully utilize I/O blocks and protect cables where they are vulnerable, reducing downtime due to cable failure.

Features

- Operating temperature (fixed) -60...250°C
- Air inside silicone tube insulates the cable
- Silicone tube overmolded into the head to prevent ingress
- Resistant to thermal shocks
- PTFE coated nut prevents debris from sticking
- Cable lengths from 0.3 m...2.0 m; splitter lengths from 0.3 m...1.0 m



CE EAC





	BCC W415...	BCC W425...	BCC W415-W414...	BCC W415-W424...
Connection	M12 female	M12 female	M12 female, M12 male	M12 female, M12 male
Version	straight	angled	straight/straight	straight/angled
Rated voltage	250 V AC/DC	250 V AC/DC	250 V AC/DC	250 V AC/DC
Rated current	4.0 A	4.0 A	4.0 A	4.0 A
Degree of protection	IP65	IP65	IP65/IP65	IP65/IP65
Material cover nut	PTFE coated Brass	PTFE coated Brass	PTFE coated Brass	PTFE coated Brass
Material grip	PUR special	PUR special	PUR special	PUR special
4-wire, TPE + molded silicone tube	BCC W415-0000-1A-003-NW44T2①-020	BCC W425-0000-1A-003-NW44T2①-020	BCC W415-W414-3A-304-NW44T2①-__②	BCC W415-W424-3A-304-NW44T2①-__②
4-wire, PNP LED, TPE + molded silicone tube	-	-	BCC W415-W414-3A-650-NW44T2①-__②	-
Approval/Conformity	cULus, EAC, WEEE	cULus, EAC, WEEE	EAC, WEEE	EAC, WEEE



	BCC W425-W414...	BCC W414-W415-W415...	BCC W414-W425-W425...
Connection	M12 female, M12 male	M12 male, M12 female, M12 female	M12 male, M12 female, M12 female
Version	angled/straight	straight/straight/straight	straight/angled/angled
Rated voltage	250 V AC/DC	250 V AC/DC	250 V AC/DC
Rated current	4.0 A	4.0 A	4.0 A
Degree of protection	IP65/IP65	IP67/IP67/IP67	IP67/IP67/IP67
Material cover nut	PTFE coated Brass	PTFE coated Brass	PTFE coated Brass
Material grip	PUR special	PUR special	PUR special
3-wire, TPE + molded silicone tube	-	BCC W414-W415-W415-U2090①-__②	BCC W414-W425-W425-U2090①-__②
4-wire, TPE + molded silicone tube	BCC W425-W414-3A-304-NW44T2①-__②	-	-
4-wire, PNP LED, TPE + molded silicone tube	BCC W425-W414-3A-650-NW44T2 ①-__②	-	-
Approval/Conformity	CE, EAC, WEEE	EAC, WEEE	EAC, WEEE

①	Material	Color	"Number of conductors x conductor cross section"	Cable temperature fixed in place	Cable temperature flexed
TPE + MOLDED SILICONE TUBE					
NW44T2	TPE + molded silicone tube	Yellow + transparent	4 x AWG22	-50...105 °C	-25...105 °C
U2090	TPE + molded silicone tube	Yellow + transparent	4 x 0.34 mm²	-60...200 °C	

②	Cable length
CABLE	
003	0.3 m
006	0.6 m
010	1.0 m
015	1.5 m
020	2.0 m