

Silicone Tube Cables For harsh welding applications

In a welding environment, a cordset's life span can be short. The environment will burn through the cable; encasing cable and connector in weld slag, weight of the accumulated weld slag can pull the cable out of the overmold and so on. Cable can be a weak link in the automation process if it is not selected properly to fit the environment. Balluff offers silicon tube cables for the harsh welding environment to provide appropriate protection without compromising on the the application requirements.

Balluff silicone tube cables with TPE (Thermoplastic Elastomer) aims to reduce the consumption of cables and connectors in the welding environments. TPE cables naturally offer weld spark immunity and high flex life rating (>10 million cycles). The silicone tube over the TPE cable offers added protection as it creates an insulating air pocket allowing the cordset to have higher temperature rating compared to the standard TPE cable without the jacket. This protection of silicon tube also prevents occasional weld spatter and weld sparks burning through the cable. The silicone tube Cables with PTFE coated nut helps prevent wasting sensors and destroying connectors, when trying to separate the two from each other in the event of the weld slag buildup. The PTFE coated nuts prevent debris from sticking to the nut which in turns prevents the engulfment of debris over the sensor and the cable.

Silicone tube cables help reduce unplanned downtime due to cable failure.



Features

- Silicone tube overmolded into the head to prevent ingress
- Resistant against thermal shocks
- Operating temperature (fixed) -60...250° C
- Air acts like insulation inside the tube protecting the cable
- PTFE coated nut prevents debris from sticking
- Specific overmold material designed for slag resistance



	Single ended (Female)		Double ended (Female-Male)			
Length (meters)	M12 straight pigtail	M12 right angle pigtail	M12 straight -M12 straight	M12 PNP LED (STR) -M12 (STR)	M12 right angle -M12 straight	M12 PNP LED (RT) -M12 (STR)
0.3			BCC0J2W	BCC0JCW	BCC0J32	BCC0JE2
0.6			BCC0J2Y	BCC0JCY	BCC0J33	BCC0JE3
1			BCC0J2Z	BCC0JCZ	BCC0J34	BCC0JE4
1.5			BCC0J30	BCC0JE0	BCC0J35	BCC0JE5
2	BCC0J37	BCC0J38	BCC0J31	BCC0JE1	BCC0J36	BCC0JE6