BALLUFF

Harsh Welding Applications

TPE CABLES WITH A SILICONE TUBE

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

Balluff silicone tube TPE cables with Thermoplastic Elastomer aim to reduce the consumption of cables and connectors in welding environments. TPE cables naturally offer weld spark resistance and high flex life rating (>10 million cycles).

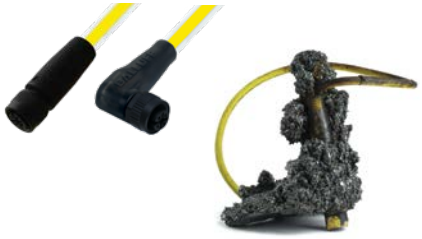
The silicone tube over the TPE cable offers added protection as it creates an insulating air pocket allowing the cordset to have higher temperature resistance compared to a standard TPE cable without the tube. This protection of silicon tube also prevents occasional weld spatter and weld sparks burning through the cable.

The silicone tube cable has PTFE coated nuts to help prevent wasting sensors and destroying connectors when trying to separate the two from each other in the event of 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

	M12 straight pigtail	M12 right angle pigtail
2 m length	BCC0J37	BCC0J38

DOUBLE ENDED FEMALE TO MALE

	M12 Straight – M12 Straight	M12 PNP LED Straight – M12 Straight	M12 Right – M12 Straight	M12 PNP LED Right – M12 M12 Straight
0.3 m length	BCC0J2W	BCC0JCW	BCC0J32	BCC0JE2
0.6 m length	BCC0J2Y	BCC0JCY	BCC0J33	BCC0JE3
1 m length	BCC0J2Z	BCC0JCZ	BCC0J34	BCC0JE4
1.5 m length	BCC0J30	BCC0JE0	BCC0J35	BCC0JE5
2 m length	BCC0J31	BCC0JE1	BCC0J36	BCC0JE6