

RUBBER SILICONE FLEXIBLE WIRE

We Care For Connection



PROUDLY MADE-IN-INDIA
'FOR THE WORLD'

CABLE CHARACTERISTIC

AWG Thickness	Copper Diameter (mm)	Diameter (mm)	Outer Diameter	Max CR (Ω /Km)	Area (Sqmm)	Current (Amp)	Wt (gram/m)	
6	1.3	3200*0.080	5.5	8.5	1.2	16	380	210
8	1.25	1650*0.080	4	6.5	4.2	8.3	200	120
10	1.25	1050*0.080	3.2	5.5	6.3	5.3	140.6	75
12	1	680 *0.080	2.6	4.5	9.8	3.4	88.4	50
14	1.25	400*0.080	2	3.5	15.6	2	55.6	30
16	0.8	252*0.080	1.53	3	24.4	1.27	35	19
18	0.4	150*0.080	1.2	2	39.5	0.75	22	11
20	0.4	100*0.080	1	1.8	52.5	0.5	13.87	8
22	0.45	60*0.080	0.8	1.7	88.6	0.3	8.43	5.5
24	0.45	40*0.080	0.7	1.6	97.6	0.2	5	4.2
26	0.45	30*0.080	0.6	1.5	123	0.15	3.5	3.5
28	0.45	16*0.080	0.4	1.3	227	0.08	1.25	3
30	0.45	11*0.080	0.3	1.2	331	0.05	0.8	2

OPERATING TEMPRATURE RANGE	-60 °C TO 200 °C
CONDUCTOR MATERIAL	TIN COPPER
INSULATION MATERIAL	SILICONE RUBBER
RATED VOLTAGE	600
ELONGATION	200-500 %
TENSILE STRENGTH	8-11 MPA
TEAR STRENGTH	15-25 N/MM
DIELECTRIC STRENGTH	20 KV/MM
OXYGEN INDEX	22 - 32 %
COLOUR & LENGTH	AS PER SPECIFICATION

KEY FEATURES



Highly flexible, allowing cables to bend and twist without losing their structural integrity. Additionally they are resistant to aging and degradation, contributing to the cables durability.



Excellent resistance to a variety of chemicals, oils, and solvents like water and moisture, making them suitable for outdoor and underwater applications.

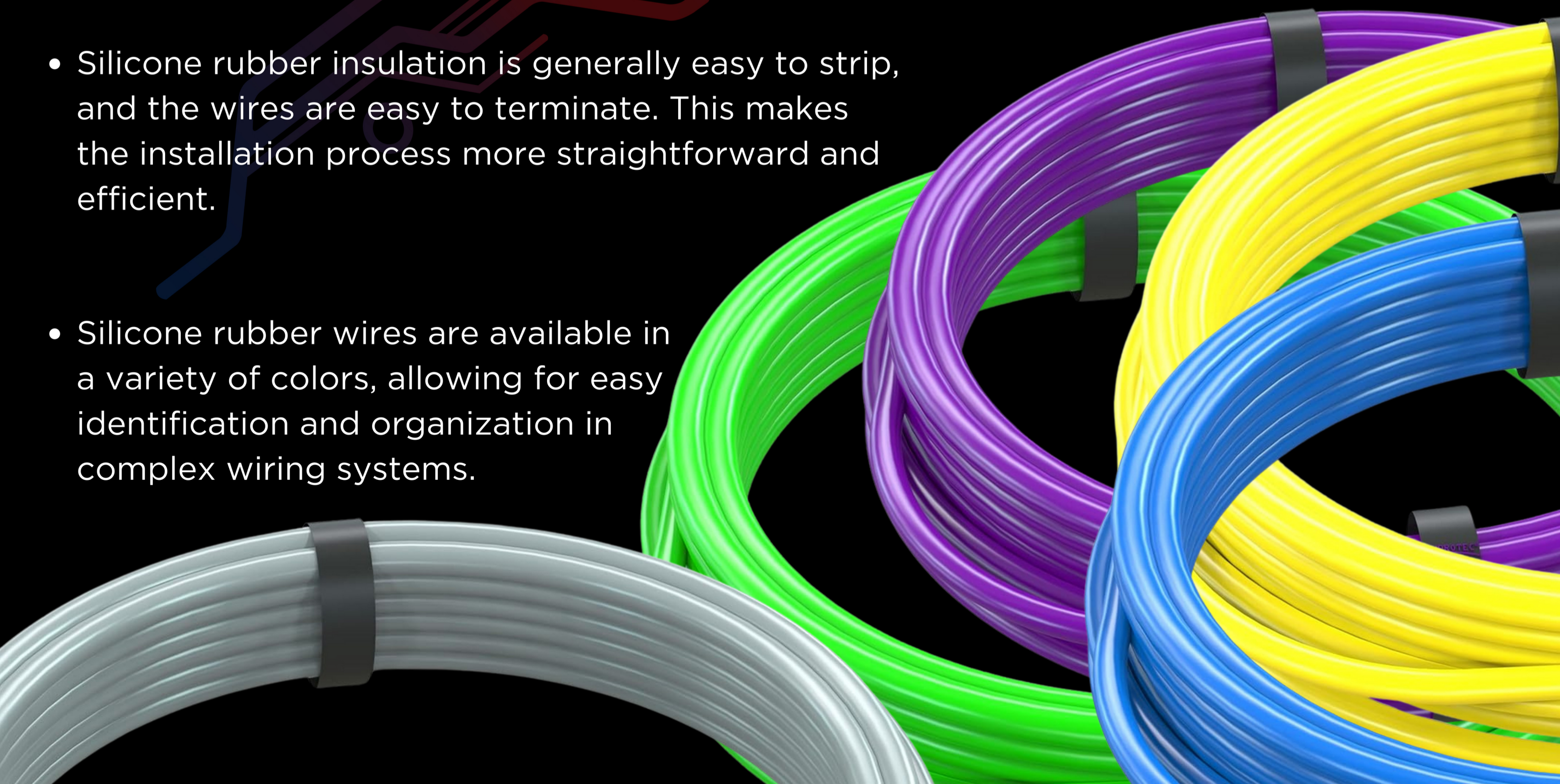


Low smoke emission and they inherent flame-retardant properties, making them resistant to combustion and self-extinguishing. They can withstand extreme temperatures, both high and low.

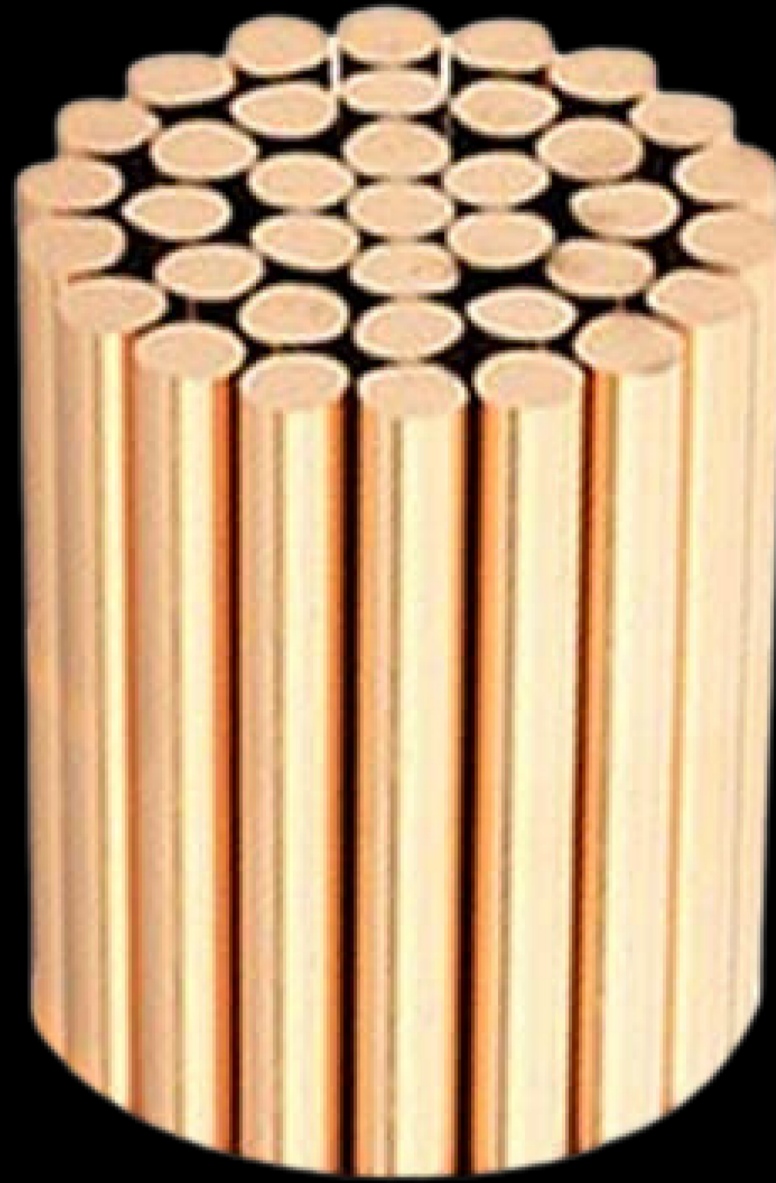
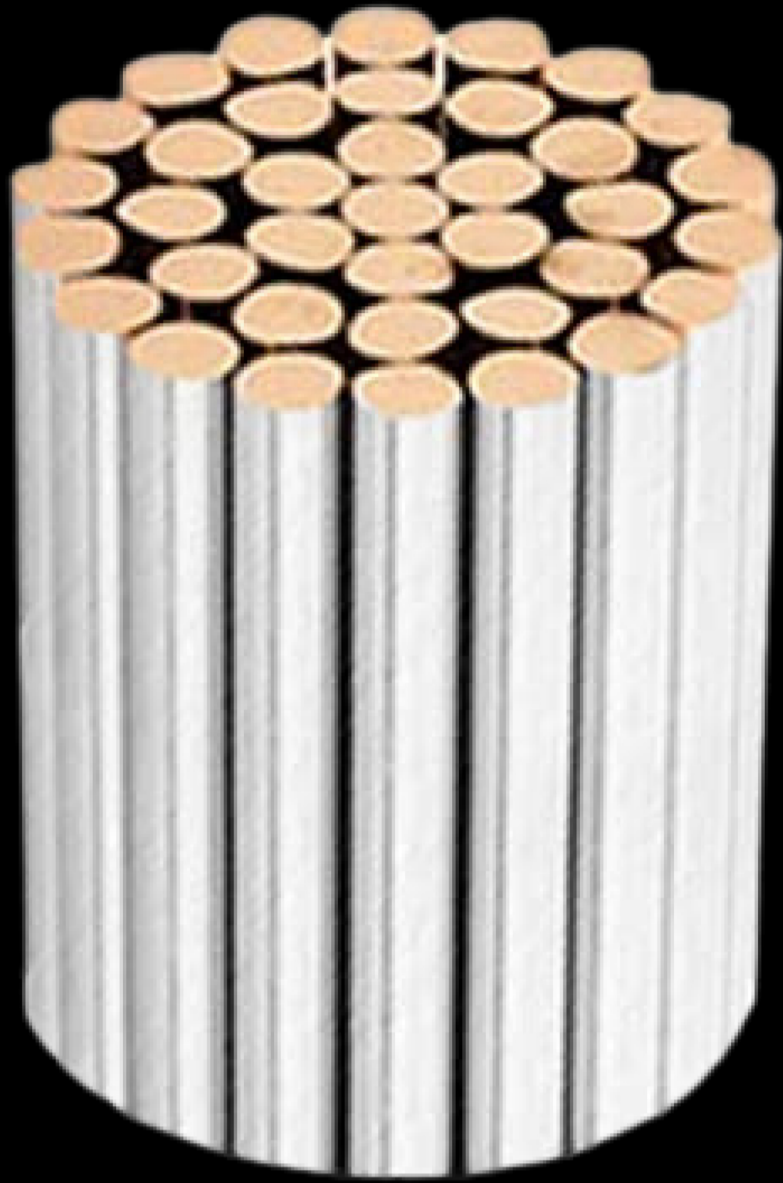


Resistant to ozone & ultraviolet (UV) radiation and have excellent electrical insulation properties, making it suitable for applications where insulation against high voltage is crucial.

- Silicone rubber insulation is generally easy to strip, and the wires are easy to terminate. This makes the installation process more straightforward and efficient.
- Silicone rubber wires are available in a variety of colors, allowing for easy identification and organization in complex wiring systems.

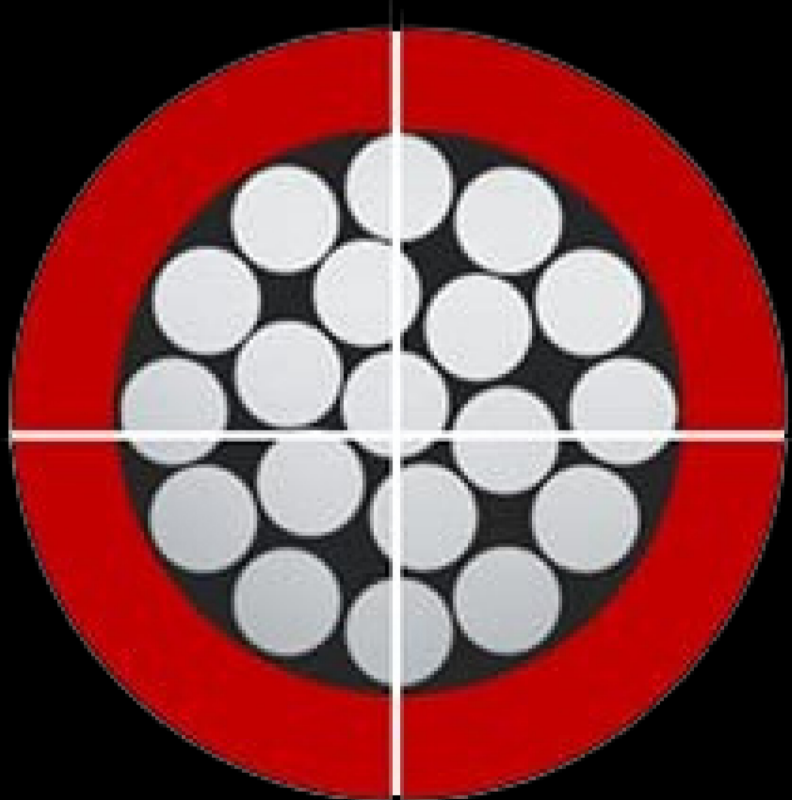


MATERIAL SELECTION

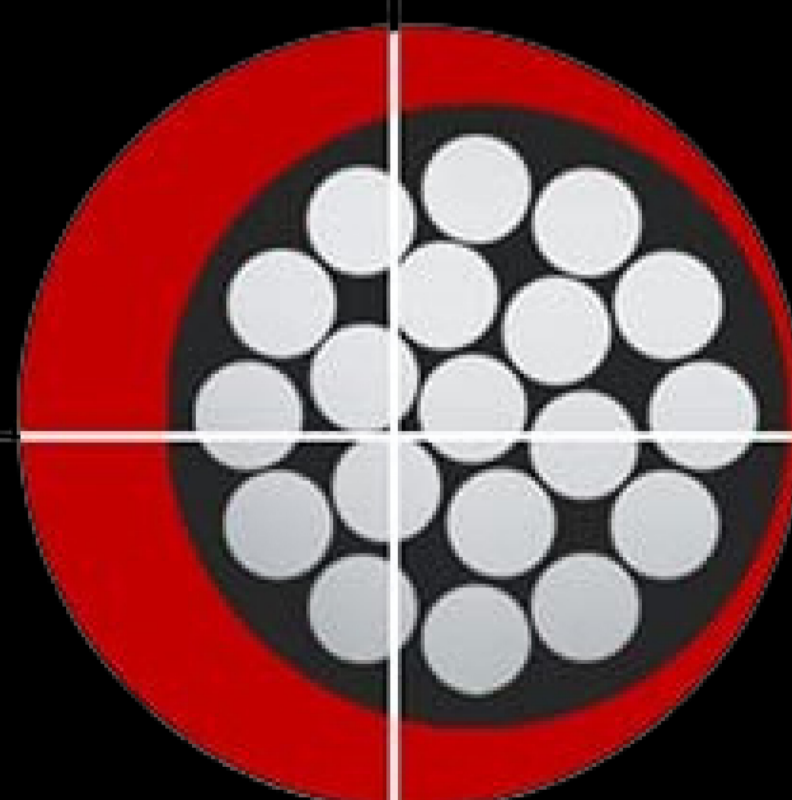


Tinned Copper	Common Copper	Aluminium
✓ Good conductance	✓ Good conductance	✗ Good conductance
✓ Low resistance	✓ Low resistance	✗ Low resistance
✓ Better anti-oxidation	✗ Better anti-oxidation	✗ Better anti-oxidation
✓ Solder easily	✗ Solder easily	✗ Solder easily
✓ More durable	✗ More durable	✗ More durable
✓ Fast heat dissipation	✗ Fast heat dissipation	✗ Fast heat dissipation

DISTINGUISHMENT OF A GOOD PRODUCT



CHETAN



OTHERS

Ensure electric safety
The thickness is uniform to
prevent the current from
penetrating the outer
jacket.

PACKAGING

We offer 3 different types of packaging depending on the customers request

• Spool

• Box

• Coil

QUALITY CRAFTSMANSHIP

- ✓ Highly Flexible (Anti-wear, Pull-resistant)
- ✓ High Tensile Strength
- ✓ High Ductility
- ✓ Low Resistance
- ✓ Anti - Oxidation



APPLICATIONS

Silicone-insulated wires find diverse applications across industries where high temperature resistance, flexibility, and durability are paramount. Their ability to withstand a wide temperature range, from extremely low to high temperatures, makes them ideal for use in aerospace, automotive, and industrial applications. In the aerospace industry, silicone wires are employed in critical systems that are exposed to varying temperature conditions. They are also utilized in automotive wiring harnesses, where the engine compartment can experience elevated temperatures. Additionally, silicone-insulated wires are commonly chosen for applications in medical equipment due to their biocompatibility and resistance to sterilization processes. The flexibility and resilience of silicone insulation make these wires suitable for various electronic devices and appliances like lighting system, ensuring reliable performance in demanding environments.

