

# Stratos connectors

## HMA Connector Series

Productsheet  
Stratos HMA Connector Series

V1.0, 17-05-2016

### Contact

In case of any questions,  
call us on +31 (0)416-387700 or  
sent an email to:  
sales@simacelectronics.nl.

We like to help you!



### Stratos HMA Series

The Stratos HMA connector series is an expanded beam hermaphroditic connector suited for a vast array of applications, including broadcast, military communications, industrial and petrochemical. The innovative design ensures its ability for deployment in the toughest environments where high performance and total reliability are critical.

Benefiting from Stratos expanded beam technology, with a long and proven industry track record, the precision optical alignment system creates immunity from water, mud, dust, oil and other contaminants.

The HMA hermaphroditic coupling eliminates the need for adaptors and male and female mating halves. Hermaphroditic housings allow for rapid deployment, creating low loss singlemode, multimode and hybrid daisy chained links, available in a variety of insert arrangements. These range from simplex fiber to a hybrid solution. The HMA is ideally suited for environmental extremities where low maintenance and quick repairability is necessary. The connectors are field installable and rapidly repairable.

### Features

- Advanced expanded beam technology
- Hermaphroditic interconnection
- 1 to 4 fiber channels singlemode or multimode
- Hybrid electrical and fiber channel options available
- Rugged connector design keyed boot for 'blind mating'
- No adaptors necessary
- Inexpensive, low downtime field repair
- Easy clean, no special tools
- Termination in under 30 minutes
- Designed to meet requirements of MIL-DTL-83526/20/21

**Stratos Expanded Beam**

**Highly reliable**

**Cost-effective**

**Designed for harsh environment**

# Stratos

---

## HMA Connector Series

### Optical

---

Insertion Loss	HxMA Singlemode 9/125 @ 1310/1550 nm : -1.5dB maximum (-1.2dB typical)
	HxMA Multimode 50/125 @ 850/1300 nm: N/A
	MIL-DTL-83526/20/21 SM 9/125 @ 1310/1550 nm : -1.5dB max (-1.0dB typ)
	MIL-DTL-83526/20/21 MM 50/125 @ 850/1300 nm: -1.0dB max (-0.8dB typ)
Return Loss	HxMA Singlemode 9/125 @ 1310/1550 nm: $\geq 38$ dB unmated, $\geq 40$ mated
	HxMA Multimode 50/125 @ 850/1300 nm: N/A
	MIL-DTL-83526/20/21 SM 9/125 @ 1310/1550 nm : $\geq 33$ dB unmated, $\geq 31$ mated
	MIL-DTL-83526/20/21 MM 50/125 @ 850/1300 nm: N/A

### Mechanical

---

Free Fall Resistance	500 Falls from 1.2m height
Cable Retention	1500N (Cable Dependant)
Vibrational Sinusoidal	10-500Hz, 0.75 amplitude @ 10g acceleration
Free fall Resistance	500 Falls from 1.2m height
Bump Resistance	

### Environmental

---

Operating Temperature	-40°C to +70°C
Storage Temperature	-55°C to +85°C
Water Immersion	up to 2m depth

### More information

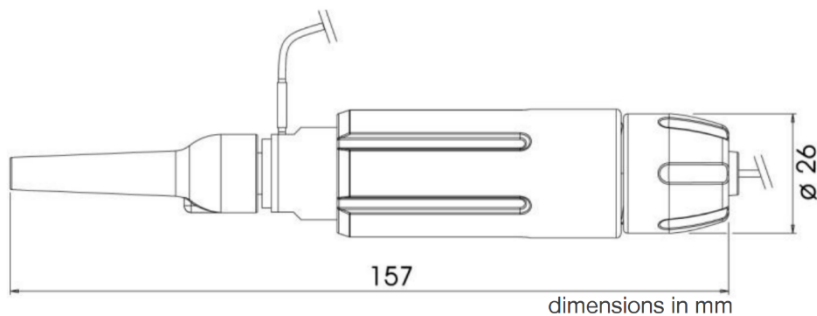
Check [www.simacelectronics.nl](http://www.simacelectronics.nl) or call us on +31 (0) 416 387 711. We like to help you!

# Stratos

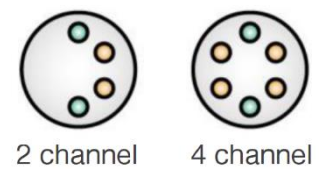
## HMA Connector Series

### Drawings

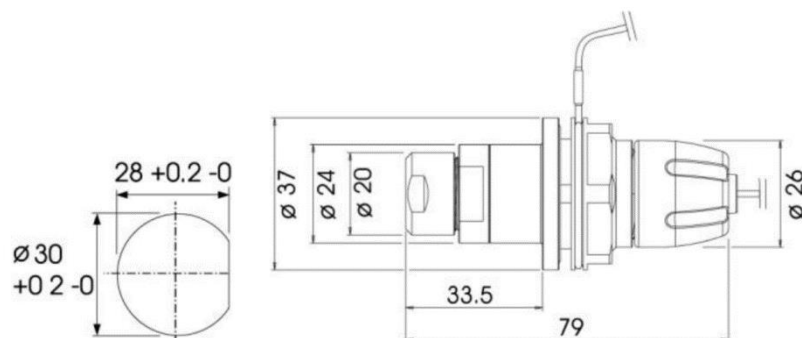
#### Plug Connector



#### Insert Arrangements



#### HMA Jam Nut Bulkhead



#### HMA Flange Mount Bulkhead

