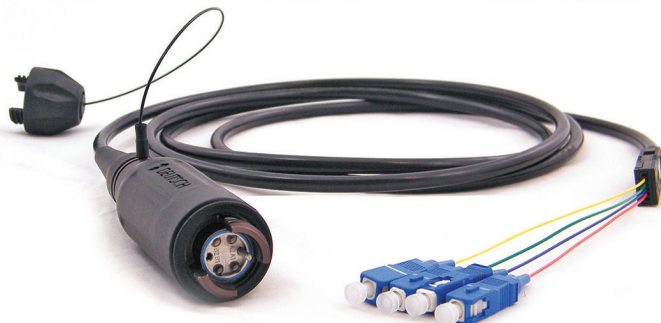


# Harsh Environment Fibre Assemblies



## For your own safety

Fibre optics deployed in military applications take the form of highly engineered interconnect harnesses. Tactical connectors accommodate multiple ruggedized fibre cables and utilize precision contacts, or termini, sometimes combined with expanded beam technology as the primary mechanism for aligning and connecting optical fibres. In so many military applications fibre optics are employed as replacements or upgrades to existing copper conductor cable harnesses servicing existing black-box flight equipment, weapon systems, surveillance cameras and sensors. Also some civil fibre optic communications need to be able to withstand heat, cold rain and other environmental abuse. Exposed applications such as wireless fibre optic radio network on utility poles, as disaster recovery and as video camera network for remote monitoring. Optotec is proud to satisfy severe performance standard fibre assembly on civil and on peace-keeping military applications.



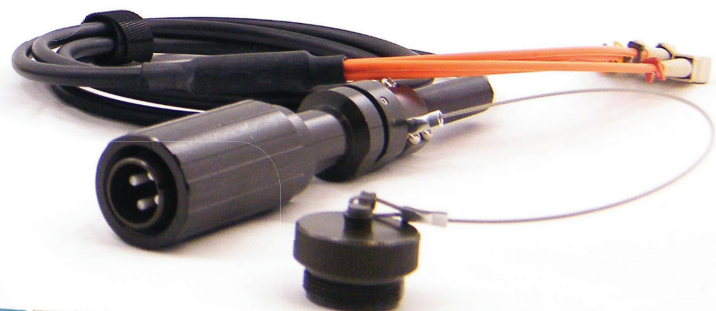
### HMA TYPE

EXPANDED BEAM HERMAPHRODITIC 1 TO 4 MULTIMODE OR SINGLE MODE CHANNELS COMBINED FIBRE AND ELECTRICAL CHANNELS - KEYED BOOT FOR BLIND MATING (SENIOR, JUNIOR AND MINI AVAILABLES)



### HR - BAYONET LOCK

1 TO 4 MULTIMODE OR SINGLE MODE CHANNELS SC/PC FERRULES - IP67 WATERPROOF PERFORMANCE (MF10, MF14, MF17 AVAILABLE)



### EU2 - EUROCOM TYPE II

EXPANDED BEAM HERMAPHRODITIC 2 TO 8 MULTIMODE CHANNELS FLANGE MOUNT AND RIGHT ANGLED BULKHEAD AVAILABLE



*Optotec has extensive capability and long-time experience in harsh environment fibre assemblies. Reported connectors, cables and drums type show a minimum part of Optotec harsh environment products and assembly possibilities. Please contact our sales department for part numbers and availability*

# Harsh Environment Fibre Assemblies

CABLES SPECIFICATION	UNIT	2	4
EXTERNAL DIAMETER	mm	5.5	5.5
SUBUNIT DIAMETER	mm	1.0 with one strand of 1320 digitex of aramidic yarns	
JACKET MATERIAL AND COLOUR		Black Thermoplastic Polyurethanes	
WEIGHT	Kg/km	26	
TENSILE STRENGTH	N	2,000	
CRUSH RESISTANCE (LONG-TERM)	N/cm	100	
IMPACT RESISTANCE $W_P = 2.25 \text{ J}$		300	
OPERATING TEMPERATURE RANGE	°C	-40 to +85	

OPTICAL FIBRE AND FIBRES COUNT	UNIT	SPECIFICATION	P <sub>N</sub>
	2	SM 9/125 µm ITU-T G.652	1351207
	2	MM 50/125 µm ITU-T G.657	1351208
	2	MM 62.5/125 µm ITU-T G.651	1351217
	4	SM 9/125 µm ITU-T G.652	1351231
	4	MM 50/125 µm ITU-T G.657	1351232
	4	MM 62.5/125 µm ITU-T G.651	1351233

