SOURIAU
FSMA 8005

Application

FSMA 8005 connectors can connect most optical fibres for a variety of applications such as :
- computer industry,
- industrial links,
- instrumentation,
- aeronautical and military applications

Standards

mil C 83522
UTE CF 02 - NFC 93813
IEC SC 86 B

Description

FSMA 8005 connectors range includes : plugs, in line couplers, thru-bulkhead adaptators, and device housings to accomodate led's and photo diodes for printed circuit board mounting.
Jumpers and active device housings can be supplied regarding customer requirement.

Characteristics

• Performances :
  attenuation at typical : 850 nm
    50/125 µ : 1,5 dB
    100/140 µ : 1 dB

Materials :

connector in arcap, rust proof material, alignment by precision drilled jewel or fully metallic probe.
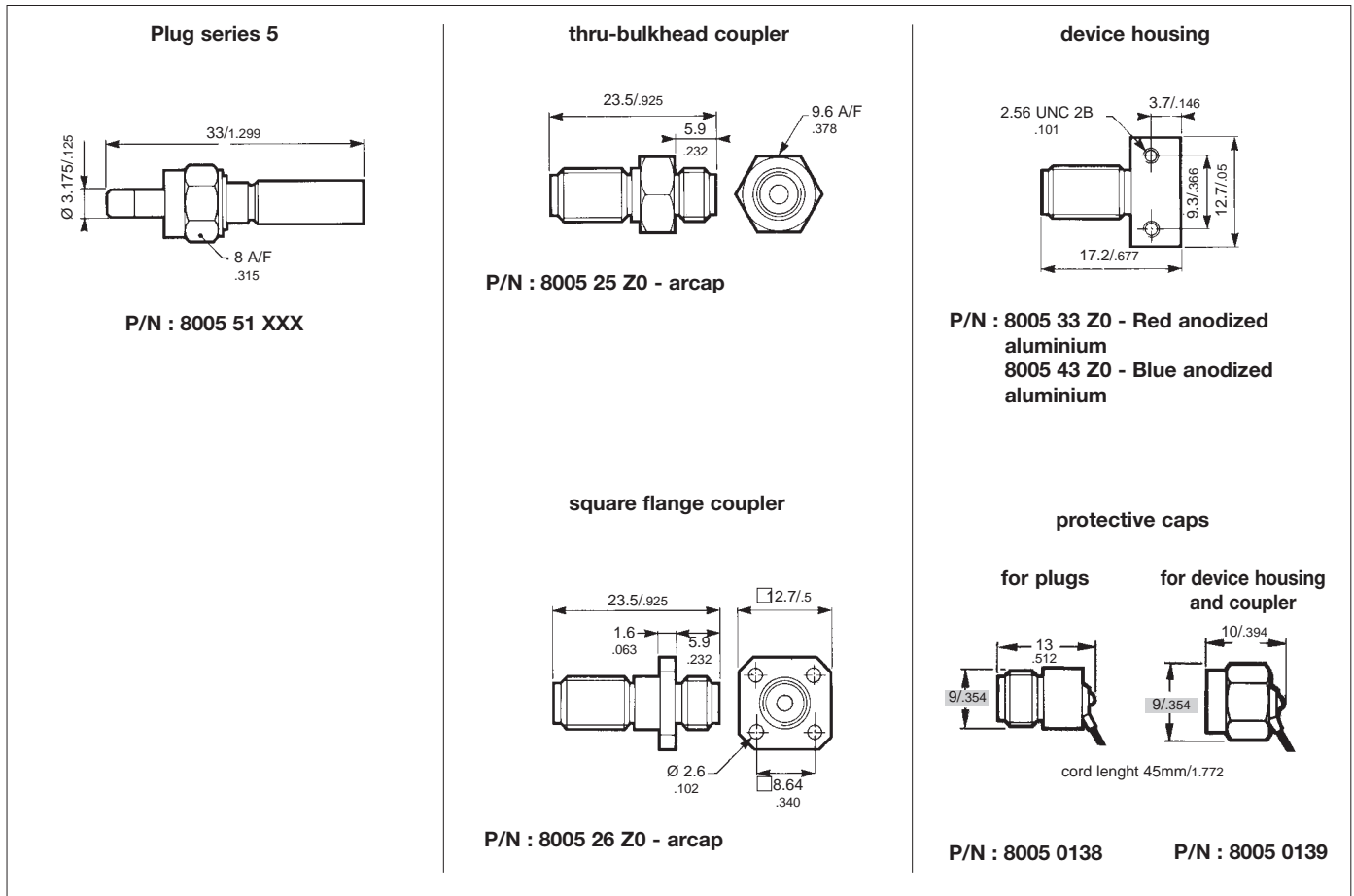
Electrical :

• Temperature range : depends on the cable and fibre used :
- 20 to + 70° C for standard applications
- 40 to + 85° C for military and aeronautical applications

Ordering information

basic series		8005	5	1	G	0	2	7

plugs

51 - gluing / polishing (silica fibre)
53 - crimping / polishing (plastic fibre)
59 - sealed version plug

Couplers   Arcap
25 - thru-bulkhead / coupler
26 - square flange / coupler

device housings   AU4G Anodized
33 - PC red receptacle (Emitter)
43 - PC blue receptacle (Receiver)

Fibres type
G - 50/125 - 62.5/125 µ silica fibre
H - 100/140/250 to 500 µ silica fibre
R - 200/230/500 µ HCS
J - 1000 µ plastic fibre

Z - for device housings and couplers

Other fibres :   consult us

modification code * depending on the version : please consult us

cables type

Cable diameters   **61**   Ø 1.5
(mm)   **62**   Ø 2.2 (Plastic fiber)
                            27   Ø 2.7
                            23   Ø 3
                            36   Ø 6 (reinforcement plastic fiber Ø 2.2)
For other cable types, consult us

For adaptors, leave blank.

Device housings details
Centering rings depend on component type, please consult us for the part number.

Dimensions

Plug series 5

33/1.299

Ø 3.175/.125

8 A/F
.315

P/N : 8005 51 XXX

thru-bulkhead coupler

23.5/.925

5.9
.232

9.6 A/F
.378

P/N : 8005 25 Z0 - arcap

device housing

2.56 UNC 2B
.101

3.7/.146

9.3/.366

12.7/.05

17.2/.677

**P/N : 8005 33 Z0 - Red anodized
aluminium
8005 43 Z0 - Blue anodized
aluminium**

square flange coupler

23.5/.925

12.7/.5

1.6
.063

5.9
.232

Ø 2.6
.102

8.64
.340

P/N : 8005 26 Z0 - arcap

protective caps

for plugs

13
.512

9/.354

**for device housing
and coupler**

10/.394

9/.354

cord lenght 45mm/1.772

P/N : 8005 0138   **P/N : 8005 0139**

Fibre termination

• Technology
- gluing / polishing for fibre types G, H, R
- crimping and polishing for fibre type J

• Tool kit   P/N : 80 MG-0018
The tool kit contains all necessary tools to terminate plugs in gluing / polishing technic.
- stripping pliers
- polishing tools (coarse and final)
- curing oven
- miscellaneous tool
NB : the crimping tool must be ordered separately depending on the cable diameter (type 23, 27 or 61)

• Tool kit   P/N : 80-MS0002
The tool kit contains all necessary tools to terminate plugs for plastic fiber (type J) such as :
- stripping pliers
- polishing tool
- miscellaneous tool
NB : the crimping tool must be ordered separately depending on the cable diameter (type 62 or 36)

• Options can be ordered separately to complete the tool kit :
- microscope/high magnification	X200	P/N : 80-WL0007
	X400	P/N : 80-WL0001
- microscope adapter		P/N : 80-WL0020
- crimping plier for cable type 23 or 27		P/N : 80-WS0003
- crimping plier for cable type 62 or 36		P/N : 80-WS0019
- crimping plier for cable type 61		P/N : 80-WS0002

•Consumable kit   P/N : 80-KG0009
The consumable kit contains all necessary materials to terminate about 50 plugs such as :
- polishing disks
- glue
- syringes and needles
- ethanol
- dry air canned
- miscellaneous

• Cleaning kit   P/N : 80-KN0002
- The cleaning Kit contains all necessary items to clean either plugs, couplers or device housings such as :
- ecological cleaning spray
- dry air canned
- ethanol
- paper sticks
- cleaning paper