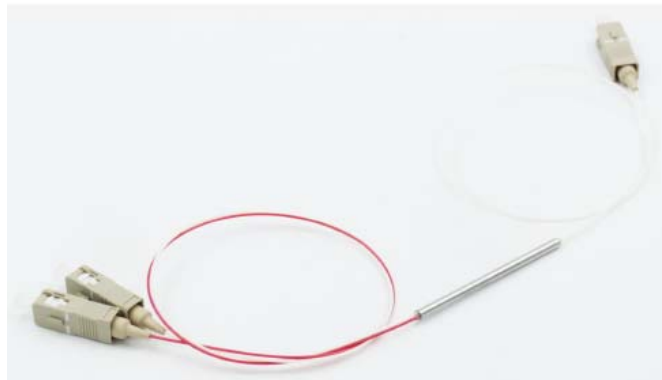




## Multimode IEC Compliant FBT Couplers



### Description

According to IEC61280-4-1 Ed.2.0 and TIA-568-14-C standard, Encircled Flux (EF) is the final piece in the puzzle to reducing measurement uncertainty for multimode optical components. For the customers who also apply the EF LED light source, KOC can provide the high stability and repeatability multimode FBT coupler.

### Application

- Fiber optic instruments
- Fiber sensors
- Video & CATV
- Local Area Networks (LAN)
- Subscriber loop
- Fiber monitoring system

### Features

- Low insertion loss
- Wide operating wavelength
- Compact size
- Excellent environmental & mechanical stability
- IEC 61280-4-1 compliance
- RoSH compliance
- SGS Report No.CANEC1618829601

### Specification

Type	Multimode Standard Fiber Couplers
Coupling Ratio (%)	50/50
Grade	P
Excess Loss (Typical) (dB)	0.7
Max. Insertion Loss (dB)	4.0/4.0
Uniformity (Max.) (dB)	0.8
Directivity (dB)	>35
Central Wavelength (nm)	850 or 1310 or Customized
Operating Temperature	-40° C - 85° C
Fiber Type	Corning Multimode 50/125, 62.5/125 Fiber
Fiber Pigtail Length (m)	1 M or Custom on Request
Port Configuration	1x2 or 2x2
Package Dimension	Package A,B,C

Note: 1.For 50/125 um, 62.5/125 um Fiber, 50% coupling ratio, testing wavelength at 850nm.&1310nm

2.Measured under EF compliant LED light source.



### Coupling Ratio/Insertion Loss Conversion Chart

VSS PN	KOC PN	Split rate	Insertion Loss
Vo_00370	170-201213-5502	50/50 OM4	4.0/4.0
Vo_00375	170-201093-5505	50/50 OM1 62.5/125	
Vo_00378	170-202213-5502	40/60 OM4	5.0/3.0
Vo_00045	170-202093-5501	40/60 OM1 62.5/125	
N/A	N/A	30/70 OM4	6.3/2.4
N/A	N/A	30/70 OM1 62.5/125	

Note: All the data above has included connector(LC) Loss

\* OM1 insertion loss should be tested under 850nm and 1300nm. \* OM3\OM4 insertion loss should be tested under 850nm

### Order Information

Type	Grade	Wavelength	Coupling	Port	Package	Pigtail Style	Fiber Type	In/Out Connector	In/Out Length (m)
			Ratio (dB)						
M	P	85=850nm	50=50/50	0102=1x2	A=Package A	1=Bare Fiber	2=50/125um	0=None	L=0.5/0.6 ...1/2/3
		13=1310nm	40=40/60	0202=2x2	B=Package B	2=900µm Jacket	3=62.5/125um	1=FC/APC	
		30=30/70	0103=1x3	C=Package C	3=3mm Cable	4=100/140um	2=FC/PC		
		20=20/80	0303=3x3	S=Package S	4=2mm Cable	5=OM3	5=ST		
		10=10/90	0104=1x4			6=OM4	6=LC		
		05=5/95							
		02=2/98							
		01=1/99		• •					
		AV=Tree Coupler	• •						

\*Type:M-Multimode Fiber Coupler

\*In/out Pigtail length and color need to be confirmed before ordering

### PACKAGE DIMENSIONS & PIGTAIL STYLE

Item	Pigtail Style	Package Dimensions
Package A: 3mm x 54mm stainless steel tube	250um bare fiber	
Package B: 3mm x 60mm stainless steel tube	250um bare fiber or 900um loose tube	
Package C: 90mm x 20mm x 9.5mm case	3mm, 2mm cable or 900um loose tube	
Package S: 88.9mmX50.88mmX9.2mm case	3mm cable or 900um loose tube	

\* All products meet GR-1221 requirement;

\* All materials meet ths RoHs Directive.

