



Get Connected with 3M[™] Anisotropic Conductive Film (ACF)

3M offers you a variety of high-performance anisotropic conductive adhesive products, used to mechanically and electrically connect flex circuits to a variety of substrates.

These reliable, productionproven technologies can replace soldering and mechanical fasteners in many applications, reducing assembly time and saving on space requirements.

Get the job done faster, easier and more economically with 3M™ Anisotropic Conductive Film (ACF) Interconnect Solutions

- Products for a variety of applications
 - Flex circuit to PCB Flex circuit to flex circuit Flex circuit to glass panels
- Good room temperature stability for long life on the factory floor
- Low temperature processing for lead free solutions
- Replaces connectors for cost savings, lower Z-axis standoff

Choose the 3M ACF Adhesive That's Right for Your Application

3M ACF 5363

Adhesive Thickness (micron)	40	75	40	19
Particle Diameter (micron)	10	43	10	6
Type of Particle	Au/Ni	Ag/Glass	Au/Ni	Au/Ni/Polymer
Bonding Temperature (°C)	195 to 210	135 to 150	160 to 180	170 to 190
Bonding Time (seconds)	10 to 20	25	5 to 9	20 to 30
Bonding Pressure (MPa)	3 to 5	2	3 to 4	2 to 4
Minimum Pitch (micron)	200	500	200	<100
Minimum Pad Area (mm²)	0.15	0.75	0.2	0.015
Connection Resistance	<100 m0hms	<200 m0hms	<100 m0hms	<20 0hms
90° Peel Adhesion (g/cm)	>700	>500	>1000	>800
Temp/Humidity Aging (°C/%r.h.)	85/85	70/90	85/85	85/85
Temp Cycling (°C)	-40 to 100	-40 to 80	-40 to 85	-40 to 100
Flex Type				
Silver Ink on Polyester		X		
Gold/Copper on Polyester		X	X	
Gold/Copper on Polyimide	X	X	X	Х
Connection Type				
Flex to Glass		X ¹		X
Flex to Plastic Device		X ²		
Flex to PC Board	X	X	X	
Flex to Flex	X	X	X	X
¹ Tested only for eilyer frit: not suitable for ITO traces. ² Suitable for silver ink traces only: not suitable for ITO traces				

Flex-On-Board

3M ACF 7303

3M ACF 7378

Flex-On-Glas

3M ACF 5552





Adhesive Technologies

3M™ Anisotropic Conductive Film (ACF) Adhesives

Heat-bondable 3M™ ACF films, consisting of thermoplastic and thermoset adhesives randomly loaded with conductive particles. These particles allow interconnection of circuit lines through the adhesive thickness, but are spaced far enough apart for the product to be electrically insulating along the plane of the adhesive.

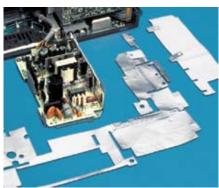
SS	Flex-On-PET/Glass	Flex-On-PET	Camera Module	Camera Module Flex-On-PET
R	3M ACF 7371	3M ACF 7393	3M ACF 7376-10	3M ACF 7376-20
	25	25	40	35
	10	10	10	20
	Au/Ni/Polymer	Au/Ni/Polymer	Au/Ni/Polymer	Au/Ni/Polymer
	140 to 170	150 to 170	140 to 160	140 to 160
	10 to 15	10 to 20	7 to 15	7 to 15
	1 to 2	1 to 2	1 to 2	1 to 2
	200	200	200	500
	0.2	0.2	0.2	0.5
	<100 m0hms	<100 m0hms	<100 m0hms	<100 m0hms
	>700	>700	>700	>700
	85/85	70/90	85/85	85/85
	-40 to 85	-20 to 60	-40 to 85	-40 to 85
	Х	Х	X	Х
	Х	Х	Χ	X
	Χ	Х	Χ	χ
	Х	Х		
	X	X		X
			X	Х
	X	X	X	X



An easy-to-use, pressure sensitive tape designed for connecting, bonding and grounding flex circuits, PCBs and EMI/RFI shields and gaskets. Applied at room temperature – no thermal bonding required! Not recommended for extreme high or low temperatures.



	3M ECATT 9703	3M ECATT 9705		
Adhesive Thickness (micron)	50	50		
Type of Particle	Ag/Ni	Ag/Ni		
Pitch (micron)	800	800		
Application Notes	Good adhesion; reworkable. For connecting/bonding/grounding flex circuits, printed circuits boards, EMI/RFI shields & gaskets, PSA attachments at room temp. Not recommended for extreme high/low temps.			



Contact 3M

3M provides applications development support. For more information, contact 3M at 800-251-8634. Or visit us on the web: www.3M.com/electronics.

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ПОСТАВКА ЭЛЕКТРОННЫХ КОМПОНЕНТОВ

многоканальный

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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