



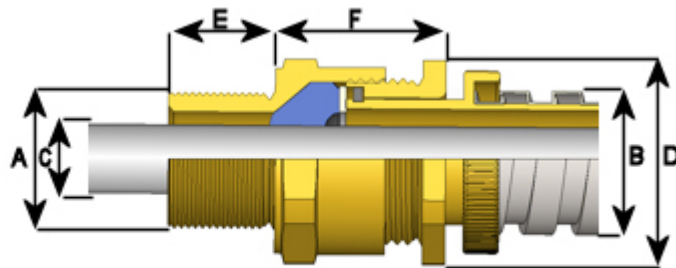
Brass

A2FFC Type Tri-Star Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland For Flexible Metallic Conduit Connection

CMP Type A2FFC Tri-Star Triple Certified Flameproof (Type "d"), Increased Safety (Type "e") and Restricted Breathing (Type "nR") indoor and outdoor conduit connection cable connector for use in Zones 1, 2, 21 and 22, Hazardous Areas with un-armoured cable housed in flexible metallic conduit systems. The cable gland provides full compatibility with restricted breathing equipment.

All CMP Cable Glands are EMC Tested.

The CMP A2FFC Tri-Star Cable Connector is suitable for use with all forms of equipment protection permitted in Zones 1, 2, 21 & 22, providing always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14.



Cable Gland Selection Table

Cable Connector Size	Entry Threads 'A'	Minimum Thread Length 'E'	Maximum Envelope Diameter 'D'	Protrusion Length 'F'	Diameter Of Cable 'C'		Typical Diameter of Armour Conduit "B"		Ordering Reference (Brass Metric)#	Cable Connector Weight (Kgs)
					ID	OD	ID	OD		
20S16	M20 x 1.5	15.0	29.0	17.0	3.2	5.8	6.8	9.0	20S16A2FFC1RAC001	0.048
20S16	M20 x 1.5	15.0	29.0	17.0	3.2	8.1	9.5	13.0	20S16A2FFC1RAC010	0.050
20S16	M20 x 1.5	15.0	29.0	17.0	3.2	8.1	10.2	14.0	20S16A2FFC1RAC020	0.054
20S16	M20 x 1.5	15.0	29.0	17.0	3.2	8.1	12.0	15.5	20S16A2FFC1RAC030	0.056
20S	M20 x 1.5	15.0	29.0	17.0	6.1	11.7	13.0	16.0	20SA2FFC1RAC040	0.057
20S	M20 x 1.5	15.0	29.0	17.0	6.1	11.7	13.9	18.9	20SA2FFC1RAC045	0.059
20S	M20 x 1.5	15.0	29.0	17.0	6.1	11.7	14.7	18.7	20SA2FFC1RAC060	0.061
20	M20 x 1.5	15.0	34.0	21.0	6.5	13.1	15.6	18.5	20A2FFC1RAC050	0.082
20	M20 x 1.5	15.0	34.0	21.0	6.5	14.0	16.9	20.5	20A2FFC1RAC066	0.086
20	M20 x 1.5	15.0	34.0	21.0	6.5	14.0	18.0	21.0	20A2FFC1RAC070	0.090
20	M20 x 1.5	15.0	34.0	21.0	6.5	14.0	20.0	23.5	20A2FFC1RAC080	0.095
25	M25 x 1.5	15.0	44.0	25.0	11.0	18.7	22.6	26.5	25A2FFC1RAC110	0.115
25	M25 x 1.5	15.0	44.0	25.0	11.0	20.0	25.1	29.0	25A2FFC1RAC120	0.124
32	M32 X 1.5	15.0	45.5	29.0	17.0	26.0	28.1	32.0	32A2FFC1RAC250	0.182
32	M32 X 1.5	15.0	45.5	29.0	17.0	26.3	30.4	38.0	32A2FFC1RAC280	0.188
40	M40 x 1.5	15.0	50.0	30.0	23.5	32.2	36.4	44.0	40A2FFC1RAC300	0.230
50S	M50 x 1.5	15.0	50.0	30.0	31.0	38.2	51.2	60.0	50SA2FFC1RAC500	0.300
50	M50 x 1.5	15.0	50.0	30.0	35.6	44.1	51.2	60.0	50A2FFC1RAC550	0.340

All dimensions are in millimetres unless otherwise stated

ORDERING REFERENCE	ATEKS		FLEXICONRAMFLEX	
20S16A2FFC1RAC001	-	-	FU10	10
20S16A2FFC1RAC010	P3UX10	MPUX10	-	-
20S16A2FFC1RAC020	-	-	FU12	12
20S16A2FFC1RAC030	P3UX12	MPUX12	-	-
20SA2FFC1RAC040	-	-	FU16	16
20SA2FFC1RAC060	-	MPUX15	-	-
20SA2FFC1RAC045	P3UX15	-	-	-
20A2FFC1RAC066	-	-	FU20	20
20A2FFC1RAC050	P3UX15	-	-	-
20A2FFC1RAC070	P3UX18	-	-	-
20A2FFC1RAC080	P3UX20	MPUX20	-	-
25A2FFC1RAC100	-	-	-	25
25A2FFC1RAC110	P3UX22	-	FU25	-
25A2FFC1RAC120	P3UX25	MPUX25	-	-
32A2FFC1RAC250	-	-	-	32
32A2FFC1RAC280	P3UX32	-	-	-
40A2FFC1RAC300	P3UX38	-	-	-

Note: # Other thread forms are available, alternative conduit sizes available on request.

Cable Connector Size	Entry Threads 'A'	Minimum Thread Length 'E'	Maximum Envelope Diameter 'D'	Protrusion Length 'F'	Diameter Of Cable 'C'		Typical Diameter of Armour Conduit "B"		Ordering Reference (Brass Metric)#	Cable Connector Weight (Oz)
					ID	OD	ID	OD		
20S16	M20 x 0.059	0.591	1.142	0.669	0.126	0.228	0.268	0.354	20S16A2FFC1RAC001	1.69
20S16	M20 x 0.059	0.591	1.142	0.669	0.126	0.319	0.374	0.519	20S16A2FFC1RAC010	1.76
20S16	M20 x 0.059	0.591	1.142	0.669	0.126	0.319	0.402	0.551	20S16A2FFC1RAC020	1.91
20S16	M20 x 0.059	0.591	1.142	0.669	0.126	0.319	0.472	0.610	20S16A2FFC1RAC030	1.98
20S	M20 x 0.059	0.591	1.142	0.669	0.240	0.461	0.519	0.629	20SA2FFC1RAC040	2.01
20S	M20 x 0.059	0.591	1.142	0.669	0.240	0.461	0.547	0.744	20SA2FFC1RAC045	2.08


20S	M20 x 0.059	0.591	1.142	0.669	0.240	0.461	0.579	0.736	20SA2FFC1RAC060	2.15
20	M20 x 0.059	0.591	1.339	0.827	0.256	0.516	0.614	0.728	20A2FFC1RAC050	2.89
20	M20 x 0.059	0.591	1.339	0.827	0.256	0.551	0.665	0.807	20A2FFC1RAC066	3.03
20	M20 x 0.059	0.591	1.339	0.827	0.256	0.551	0.709	0.827	20A2FFC1RAC070	3.17
20	M20 x 0.059	0.591	1.339	0.827	0.256	0.551	0.787	0.925	20A2FFC1RAC080	3.35
25	M25 x 0.059	0.591	1.732	0.984	0.433	0.736	0.889	1.043	25A2FFC1RAC110	4.06
25	M25 x 0.059	0.591	1.732	0.984	0.433	0.787	0.988	1.142	25A2FFC1RAC120	4.37
32	M32 X 0.059	0.591	1.791	1.142	0.669	1.024	1.106	1.259	32A2FFC1RAC250	6.42
32	M32 X 0.059	0.591	1.791	1.142	0.669	1.035	1.197	1.496	32A2FFC1RAC280	6.63
40	M40 x 0.059	0.591	1.969	1.181	0.925	1.268	1.433	1.732	40A2FFC1RAC300	8.11
50S	M50 x 0.059	0.591	1.969	1.181	1.220	1.504	2.016	2.362	50SA2FFC1RAC500	10.58
50	M50 x 0.059	0.591	1.969	1.181	1.402	1.736	2.016	2.362	50A2FFC1RAC550	11.99

All dimensions are in inches unless otherwise stated

ORDERING REFERENCE	ATEKS		FLEXICON RAMFLEX	
20S16A2FFC1RAC001	-	-	FU10	10
20S16A2FFC1RAC010	P3UX10	MPUX10	-	-
20S16A2FFC1RAC020	-	-	FU12	12
20S16A2FFC1RAC030	P3UX12	MPUX12	-	-
20SA2FFC1RAC040	-	-	FU16	16
20SA2FFC1RAC060	-	MPUX15	-	-
20SA2FFC1RAC045	P3UX15	-	-	-
20A2FFC1RAC066	-	-	FU20	20
20A2FFC1RAC050	P3UX15	-	-	-
20A2FFC1RAC070	P3UX18	-	-	-
20A2FFC1RAC080	P3UX20	MPUX20	-	-
25A2FFC1RAC100	-	-	-	25
25A2FFC1RAC110	P3UX22	-	FU25	-
25A2FFC1RAC120	P3UX25	MPUX25	-	-
32A2FFC1RAC250	-	-	-	32
32A2FFC1RAC280	P3UX32	-	-	-
40A2FFC1RAC300	P3UX38	-	-	-

Note: # Other thread forms are available, alternative conduit sizes available on request.

TECHNICAL DATA

CSA Approval Certificate No.	1211841
CSA Code of Protection Category	Ex d IIC / Ex e II, Enclosure Type 4x
CSA Compliance Standards	CSA Standard C22.2 No 0. M1991, CSA Standard C22.2 No. 0.4-04, CSA Standard C22.2 No. 94-M91, CSA Standard C22.2 No. 174-M1984, CAN/CSA-E60079-0:07, CAN/CSA-E60079-1:07, CAN/CSA-E60079-7:01
GOST R Certificate Number	POCC GB.HO06.B00207
GOST R Code of Protection Category	Ex d IIC / Ex e II / DIP A21
GOST R Compliance Standards	ГОСТ P 52350.0-2005, ГОСТ P 52350.1-2005, ГОСТ P 52350.7-2005, ГОСТ МЭК 61241-1-1-99
GOST GGTN Permit	PPC 00-40706
GOST K Certificate Number	KZ 75000361 01 01 14761
RoK Permit For Use Number	19-02-UL-1957
Type	A2FFC
Design Specification	BS 6121:Part 1:1989, EN 50262:1999
ATEX Certification	SIRA06ATEX1097X / SIRA07ATEX4326X
ATEX Code of Protection Category	ATEX  II 2/3 GD Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66 - Equipment Zone 1, 2, 21 & 22, Gas Groups IIA, IIB & IIC
ATEX Compliance Standards	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 61241-0, EN 61241-1
IEC Ex Approval Number	IECEx SIR 06.0040X
IEC Ex Code of Protection Category	Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66
IEC Ex Compliance Standards	IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-15, IEC 61241-0, IEC 61241-1
Continuous Operating Temperature	-60°C to +130°C
Ingress Protection Rating	IP66
Standard Cable Connector Material	Brass, Electroless Nickel Plated Brass, Stainless Steel
Seal Material	CMP Formulated Thermoplastic Elastomer
Cable Type	Unarmored & Braided
Sealing Technique	CMP Displacement Seal
Sealing Area(s)	Outer Sheath
Accessories	Adaptor/Reducer , Earth Tag , Locknut , Serrated Washer , Entry Thread Seal