

Non-metallic conduit systems

Manifold box

Type MB

Multiway adapters / Materials: Polyamide (nylon) 66/TPE / Colour: Black (BL) only / Yellow (Y) Elastomer



Part no.	External dimensions lid dia. X height (mm)	External dimensions fixing lugs (mm)	Max threaded entry per face
MB21/BLY	100 x 40	120	M20
MB34/BLY	136 x 55	155	M32

Non metallic enclosure which can be machined to take up to eight AdaptaLok ATS™ fittings (or other devices) in a variety of configurations and sizes, e.g. 'Y', 'T', 'X', 'V' etc.

Each box has a removable cover for ease of access. The box seal is moulded, so remains captive. Each manifold is provided with eight blank sides which require drilling/machining to suit the application. Manifolds can be supplied ready drilled to order, subject to minimum order quantities. Threaded fittings with locknuts can be used in each entry.

Approvals	IP rating	Appropriate conduit	Temperature range	UV resistance
 	For use with: All threaded fittings in this catalogue		Static applications: -50°C to +120°C	Very high
	IP68		Moving applications: -45°C to +120°C	
	Yes (2 bar 30mins)			

Non-metallic conduit systems

ATS™ Type A fittings (yellow elastomer)

Type A fitting - yellow elastomer

Straight fitting - Fixed external male thread / Materials: Polyamide (nylon) 66/TPE /
Colour: Black (BL) / Yellow (Y) Elastomer



Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PF thread (in)	Part no.	Nominal conduit size (mm)	NPT thread (in)
AT13/M16/A/BLY	13	M16	AT13/PF038/A/BLY	13	3/8	AT13/038/A/BLY	13	3/8
AT16/M16/A/BLY	16	M16	AT16/PF038/A/BLY	16	3/8	AT16/038/A/BLY	16	3/8
AT16/M20/A/BLY	16	M20	AT16/PF050/A/BLY	16	1/2	AT16/050/A/BLY	16	1/2
AT21/M20/A/BLY	21	M20	AT21/PF050/A/BLY	21	1/2	AT21/050/A/BLY	21	1/2
AT21/M25/A/BLY	21	M25	–	–	–	–	–	–
AT28/M25/A/BLY	28	M25	AT28/PF075/A/BLY	28	3/4	AT28/075/A/BLY	28	3/4
AT28/M32/A/BLY	28	M32	–	–	–	–	–	–
AT34/M32/A/BLY	34	M32	AT34/PF100/A/BLY	34	1	AT34/100/A/BLY	34	1
AT34/M40/A/BLY	34	M40	–	–	–	–	–	–
AT42/M40/A/BLY	42	M40	AT42/PF125/A/BLY	42	1 1/4	AT42/125/A/BLY	42	1 1/4
AT54/M50/A/BLY	54	M50	–	–	–	–	–	–
AT54/M63/A/BLY	54	M63	AT54/PF200/A/BLY	48	2	AT54/200/A/BLY	54	2

For insertion into knockouts using a locknut. Locknut supplied with METRIC thread

Approvals



NF



IP rating

Appropriate conduit

For use with: Type PA / PR / PF

IP40 Yes

IP65 Yes

IP68 Yes

4 bar 30mins with Heavy Weight Conduits
2 bar 30mins with Standard Weight Conduits

IP69 Yes

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Non-metallic conduit systems

ATS™ Type A fittings (blue elastomer)

Type A fitting - blue elastomer

Straight fitting - Fixed external male thread / Materials: Polyamide (nylon) 66/TPE /
Colour: Black (BL) / Blue (B) Elastomer



Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	NPT thread (in)
AT13/M16/A/BLB	13	M16	AT13/038/A/BLB	13	3/8
AT16/M16/A/BLB	16	M16	AT16/038/A/BLB	16	3/8
AT16/M20/A/BLB	16	M20	AT16/050/A/BLB	16	1/2
AT21/M20/A/BLB	21	M20	AT21/050/A/BLB	21	1/2
AT21/M25/A/BLB	21	M25	–	–	–
AT28/M25/A/BLB	28	M25	AT28/075/A/BLB	28	3/4
AT34/M32/A/BLB	34	M32	AT34/100/A/BLB	34	1
AT34/M40/A/BLB	34	M40	–	–	–
AT42/M40/A/BLB	42	M40	AT42/125/A/BLB	42	1 1/4
–	–	–	AT48/150/A/BLB	48	1 1/2
AT54/M50/A/BLB	54	M50	–	–	–
AT54/M63/A/BLB	54	M63	AT54/200/A/BLB	54	2

For insertion into knockouts using a locknut. Locknut supplied with METRIC thread

Approvals



IP rating

Appropriate conduit

For use with: Type PA / PR / PF

IP40	Yes
IP65	Yes
IP68	Yes
4 bar 30mins with Heavy Weight Conduits	
2 bar 30mins with Standard Weight Conduits	
IP69	Yes

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Non-metallic conduit systems

ATS™ Type C90 fittings

Type C90 - yellow elastomer

90° Elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66/TPE /
Colour: Black (BL) / Yellow (Y) Elastomer



Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PF thread (in)	Part no.	Nominal conduit size (mm)	NPT thread (in)
AT13/M16/C90/BLY	13	M16	AT13/PF038/C90/BLY	13	3/8	AT13/038/C90/BLY	13	3/8
AT16/M16/C90/BLY	16	M16	AT16/PF038/C90/BLY	16	3/8	AT16/038/C90/BLY	16	3/8
AT16/M20/C90/BLY	16	M20	AT16/PF050/C90/BLY	16	1/2	AT16/050/C90/BLY	16	1/2
AT21/M20/C90/BLY	21	M20	AT21/PF050/C90/BLY	21	1/2	AT21/050/C90/BLY	21	1/2
AT28/M25/C90/BLY	28	M25	AT28/PF075/C90/BLY	28	3/4	AT28/075/C90/BLY	28	3/4
AT34/M32/C90/BLY	34	M32	AT34/PF100/C90/BLY	34	1	AT34/100/C90/BLY	34	1
AT42/M40/C90/BLY	42	M40	AT42/PF125/C90/BLY	42	1 1/4	AT42/125/C90/BLY	42	1 1/4
AT54/M50/C90/BLY	54	M50	AT54/PF150/C90/BLY	54	1 1/2	AT54/150/C90/BLY	54	1 1/2
AT54/M63/C90/BLY	54	M63	AT54/PF200/C90/BLY	54	2	AT54/200/C90/BLY	54	2

For insertion into knockouts using a locknut. Locknut supplied with METRIC thread

Approvals



IP rating

For use with: Type PA / PR / PF

IP40	Yes
IP65	Yes
IP68	Yes
4 bar 30mins with Heavy Weight Conduits	
2 bar 30mins with Standard Weight Conduits	
IP69	Yes

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Type C90 - blue elastomer

90° Elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66/TPE /
Colour: Black (BL) / Blue (B) Elastomer



Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PF thread (in)
AT13/M16/C90/BLB	13	M16	AT13/PF038/C90/BLB	13	3/8
AT16/M16/C90/BLB	16	M16	AT16/PF038/C90/BLB	16	3/8
AT16/M20/C90/BLB	16	M20	AT16/PF050/C90/BLB	16	1/2
AT21/M20/C90/BLB	21	M20	AT21/PF050/C90/BLB	21	1/2
AT28/M25/C90/BLB	28	M25	AT28/PF075/C90/BLB	28	3/4
AT34/M32/C90/BLB	34	M32	AT34/PF100/C90/BLB	34	1
AT42/M40/C90/BLB	42	M40	AT42/PF125/C90/BLB	42	1 1/4
AT54/M50/C90/BLB	54	M50	AT54/PF150/C90/BLB	54	1 1/2
AT54/M63/C90/BLB	54	M63	AT54/PF200/C90/BLB	54	2

For insertion into knockouts using a locknut. Locknut supplied with METRIC thread

Approvals



IP rating

For use with: Type PA / PR / PF

IP40	Yes
IP65	Yes
IP68	Yes
4 bar 30mins with Heavy Weight Conduits	
2 bar 30mins with Standard Weight Conduits	
IP69	Yes

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Non-metallic conduit systems

ATS™ Type 45 fittings

Type 45 - yellow elastomer

45° Elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66/TPE /
Colour: Black (BL) / Yellow (Y) Elastomer

Part no.	Nominal conduit size		Metric thread	Part no.	Nominal conduit size		PF thread (in)	Part no.	Nominal conduit size		NPT thread (in)
	(mm)				(mm)				(mm)		
AT13/M16/45/BLY	13		M16	AT13/PF038/45/BLY	13		3/8	AT13/O38/45/BLY	13		3/8
AT16/M16/45/BLY	16		M16	AT16/PF038/45/BLY	16		3/8	AT16/O38/45/BLY	16		3/8
AT16/M20/45/BLY	16		M20	AT16/PF050/45/BLY	16		1/2	AT16/O50/45/BLY	16		1/2
AT21/M20/45/BLY	21		M20	AT21/PF050/45/BLY	21		1/2	AT21/O50/45/BLY	21		1/2
AT28/M25/45/BLY	28		M25	AT28/PF075/45/BLY	28		3/4	AT28/O75/45/BLY	28		3/4
AT34/M32/45/BLY	34		M32	AT34/PF100/45/BLY	34		1	AT34/O100/45/BLY	34		1
AT42/M40/45/BLY	42		M40	AT42/PF125/45/BLY	42		1 1/4	AT42/O125/45/BLY	42		1 1/4
–	–		–	AT48/PF150/45/BLY	48		1 1/2	AT48/O150/45/BLY	48		1 1/2
AT54/M50/45/BLY	54		M50	–	–		–	–	–		–

For insertion into knockouts using a locknut. Locknut supplied with METRIC thread

Approvals



IP rating

Appropriate conduit

For use with: Type PA / PR / PF

IP40	Yes
IP65	Yes
IP68	Yes
4 bar 30mins with Heavy Weight Conduits	
2 bar 30mins with Standard Weight Conduits	
IP69	Yes

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Type 45 - blue elastomer

45° Elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66/TPE /
Colour: Black (BL) / Blue (B) Elastomer

Part no.	Nominal conduit size		Metric thread	Part no.	Nominal conduit size		PF thread (in)
	(mm)				(mm)		
AT13/M16/45/BLB	13		M16	AT13/PF038/45/BLB	13		3/8
AT16/M16/45/BLB	16		M16	AT16/PF038/45/BLB	16		3/8
AT16/M20/45/BLB	16		M20	AT16/PF050/45/BLB	16		1/2
AT21/M20/45/BLB	21		M20	AT21/PF050/45/BLB	21		1/2
AT28/M25/45/BLB	28		M25	AT28/PF075/45/BLB	28		3/4
AT34/M32/45/BLB	34		M32	AT34/PF100/45/BLB	34		1
AT42/M40/45/BLB	42		M40	AT42/PF125/45/BLB	42		1 1/4
–	–		–	AT48/PF150/45/BLB	48		1 1/2
AT54/M50/45/BLB	54		M50	–	–		–

For insertion into knockouts using a locknut. Locknut supplied with METRIC thread

Approvals



IP rating

Appropriate conduit

For use with: Type PA / PR / PF

IP40	Yes
IP65	Yes
IP68	Yes
4 bar 30mins with Heavy Weight Conduits	
2 bar 30mins with Standard Weight Conduits	
IP69	Yes

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Non-metallic conduit systems

ATS™ Type SA & Type CS90 fittings

Type SA

Straight fitting - Metal swivel external male thread / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE / Colour: Black (BL) / Yellow (Y), Blue (B) Elastomer

	Part no.	Nominal conduit size		Metric thread	Part no.	Nominal conduit size	NPT thread	(in)	Part no.	Nominal conduit size		PG thread
		(mm)				(mm)				(mm)		
	AT13/M16/SA/BL*	13		M16	AT13/038/SA/BL*	13		3/8	AT13/PG9/SA/BL*	13		PG9
	AT16/M16/SA/BL*	16		M16	AT16/038/SA/BL*	16		3/8	AT16/PG11/SA/BL*	16		PG11
	AT21/M20/SA/BL*	21		M20	AT21/050/SA/BL*	21		1/2	AT21/PG16/SA/BL*	21		PG16
	AT28/M25/SA/BL*	28		M25	AT28/075/SA/BL*	28		3/4	AT28/PG21/SA/BL*	28		PG21
	AT34/M32/SA/BL*	34		M32	AT34/100/SA/BL*	34		1	AT34/PG29/SA/BL*	34		PG29
	AT42/M40/SA/BL*	42		M40	AT42/125/SA/BL*	42		1 1/4	AT42/PG36/SA/BL*	42		PG36
	—	—		—	AT48/150/SA/BL*	48		1 1/2	—	—		—
	AT54/M50/SA/BL*	54		M50	AT54/150/SA/BL*	54		1 1/2	AT54/PG48/SA/BL*	54		PG48
	AT54/M63/SA/BL*	54		M63	AT54/200/SA/BL*	54		2	—	—		—
	For insertion into threaded entries & knockouts. Order locknuts separately											

* = Y (yellow elastomer); B (blue elastomer)

Approvals		Blue Elastomer version only		IP rating		Appropriate conduit		Temperature range		Fitting characteristics	
 		For use with: Type PA / PR / PF IP40 IP65 IP68 4 bar 30mins with Heavy Weight Conduits 2 bar 30mins with Standard Weight Conduits IP69		Yes		Yes		Yes		Static applications: -50°C to +120°C	
				Yes		Yes		Yes		Moving applications: -45°C to +120°C	



Type CS90

90° Elbow fitting - Swivel external male thread / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE / Colour: Black (BL) / Yellow (Y), Blue (B) Elastomer

	Part no.	Nominal conduit size		Metric thread	Part no.	Nominal conduit size		NPT thread
		(mm)				(mm)		
	AT13/M16/CS90/BL*	13		M16	AT13/038/CS90/BL*	13		3/8
	AT16/M16/CS90/BL*	16		M16	AT16/038/CS90/BL*	16		3/8
	AT21/M20/CS90/BL*	21		M20	AT21/050/CS90/BL*	21		1/2
	AT28/M25/CS90/BL*	28		M25	AT28/075/CS90/BL*	28		3/4
	AT34/M32/CS90/BL*	34		M32	AT34/100/CS90/BL*	34		1
	AT42/M40/CS90/BL*	42		M40	AT42/125/CS90/BL*	42		1 1/4
	—	—		—	AT48/150/CS90/BL*	48		1 1/2
	AT54/M50/CS90/BL*	54		M50	AT54/150/CS90/BL*	54		1 1/2
	AT54/M63/CS90/BL*	54		M63	AT54/200/CS90/BL*	54		2
	For insertion into threaded entries & knockouts. Order locknuts separately							

* = Y (yellow elastomer); B (blue elastomer)

Approvals	Blue Elastomer version only	IP rating	Appropriate conduit	Temperature range
 K035161	 LOW VOLTAGE CONDUCTIVE	For use with: Type PA / PR / PF		Static applications: -50°C to +120°C
		IP40	Yes	Moving applications: -45°C to +120°C
		IP65	Yes	Fitting characteristics
		IP68	Yes	
		4 bar 30mins with Heavy Weight Conduits 2 bar 30mins with Standard Weight Conduits		
 	 Intertek	IP69	Yes	

Non-metallic conduit systems

ATS™ Type S45 & Type SFA fittings

Type S45

45° Elbow body - Swivel external male thread / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE / Colour: Black (BL) / Yellow (Y), Blue (B) Elastomer

	Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	NPT thread (in)
	AT13/M16/S45/BL*	13	M16	AT13/038/S45/BL*	13	3/8
	AT16/M16/S45/BL*	16	M16	AT16/038/S45/BL*	16	3/8
	AT21/M20/S45/BL*	21	M20	AT21/050/S45/BL*	21	1/2
	AT28/M25/S45/BL*	28	M25	AT28/075/S45/BL*	28	3/4
	AT34/M32/S45/BL*	34	M32	AT34/100/S45/BL*	34	1
	AT42/M40/S45/BL*	42	M40	AT42/125/S45/BL*	42	1 1/4
	—	—	—	AT48/150/S45/BL*	48	1 1/2
	AT54/M50/S45/BLY	54	M50	AT54/150/S45/BL*	54	1 1/2
	AT54/M63/S45/BLY	54	M63	AT54/200/S45/BL*	54	2
	For insertion into threaded entries & knockouts. Order locknuts separately					
	* = Y (yellow elastomer); B (blue elastomer)					

Approvals		Blue Elastomer version only		IP rating		Appropriate conduit		Temperature range			
 		For use with: Type PA / PR / PF				Static applications: -50°C to +120°C					
		IP40		Yes		Moving applications: -45°C to +120°C					
		IP65		Yes		Fitting characteristics					
		IP68		Yes							
		4 bar 30mins with Heavy Weight Conduits 2 bar 30mins with Standard Weight Conduits									
		IP69		Yes							



Type SFA

Straight fitting - Swivel internal female thread / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE / Colour: Black (BL) / Yellow (Y), Blue (B) Elastomer

	Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	NPT thread (in)
	AT13/M16/SFA/BL*	13	M16	AT13/038/SFA/BL*	13	3/8
	AT16/M16/SFA/BL*	16	M16	AT16/038/SFA/BL*	16	3/8
	AT21/M20/SFA/BL*	21	M20	AT21/050/SFA/BL*	21	1/2
	AT28/M25/SFA/BL*	28	M25	AT28/075/SFA/BL*	28	3/4
	AT34/M32/SFA/BL*	34	M32	AT34/100/SFA/BL*	34	1
	AT42/M40/SFA/BL*	42	M40	AT42/125/SFA/BL*	42	1 1/4
	—	—	—	AT48/150/SFA/BL*	48	1 1/2
	AT54/M50/SFA/BLY	54	M50	—	—	—
	AT54/M63/SFA/BLY	54	M63	AT54/200/SFA/BL*	54	2
	For attachments to external threads & other fittings					
	* = Y (yellow elastomer); B (blue elastomer)					

Approvals		Blue Elastomer version only		IP rating		Appropriate conduit		Temperature range		Fitting characteristics	
				For use with: Type PA / PR / PF				Static applications: -50°C to +120°C			
				IP40		Yes		Moving applications: -45°C to +120°C			
				IP65		Yes					
				IP68		Yes					
				4 bar 30mins with Heavy Weight Conduits 2 bar 30mins with Standard Weight Conduits							
				IP69		Yes					

Non-metallic conduit systems

ATS™ Type CSF90 & Type SF45 fittings

Type CSF90

90° Elbow body - Swivel internal female thread / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE / Colour: Black (BL) / Yellow (Y), Blue (B) Elastomer



Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	NPT thread (in)
AT13/M16/CSF90/BL*	13	M16	AT13/038/CSF90/BL*	13	3/8
AT16/M16/CSF90/BL*	16	M16	AT16/038/CSF90/BL*	16	3/8
AT21/M20/CSF90/BL*	21	M20	AT21/050/CSF90/BL*	21	1/2
AT28/M25/CSF90/BL*	28	M25	AT28/075/CSF90/BL*	28	3/4
AT34/M32/CSF90/BL*	34	M32	AT34/100/CSF90/BL*	34	1
AT42/M40/CSF90/BL*	42	M40	AT42/125/CSF90/BL*	42	1 1/4
–	–	–	AT48/150/CSF90/BL*	48	1 1/2
AT54/M50/CSF90/BL*	54	M50	–	–	–
AT54/M63/CSF90/BL*	54	M63	AT54/200/CSF90/BL*	54	2

For insertion into threaded entries & knockouts. Order locknuts separately

* = Y (yellow elastomer); B (blue elastomer)

Approvals



Blue Elastomer version only



IP rating

Appropriate conduit

For use with: Type PA / PR / PF

IP66 Yes

IP67 Yes

IP68 Yes

4 bar 30mins with Heavy Weight Conduits
2 bar 30mins with Standard Weight Conduits

IP69 Yes

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics



Type SF45

45° Elbow body - Swivel internal female thread / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE / Colour: Black (BL) / Yellow (Y), Blue (B) Elastomer



Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	NPT thread (in)
AT13/M16/SF45/BL*	13	M16	AT13/038/SF45/BL*	13	3/8
AT16/M16/SF45/BL*	16	M16	AT16/038/SF45/BL*	16	3/8
AT21/M20/SF45/BL*	21	M20	AT21/050/SF45/BL*	21	1/2
AT28/M25/SF45/BL*	28	M25	AT28/075/SF45/BL*	28	3/4
AT34/M32/SF45/BL*	34	M32	AT34/100/SF45/BL*	34	1
AT42/M40/SF45/BL*	42	M40	AT42/125/SF45/BL*	42	1 1/4
–	–	–	AT48/150/SF45/BL*	48	1 1/2
AT54/M50/SF45/BL*	54	M50	–	–	–
AT54/M63/SF45/BL*	54	M63	AT54/200/SF45/BL*	54	2

For attaching to external threads & other fittings

* = Y (yellow elastomer); B (blue elastomer)

Approvals



Blue Elastomer version only



IP rating

Appropriate conduit

For use with: Type PA / PR / PF

IP66 Yes

IP67 Yes

IP68 Yes

4 bar 30mins with Heavy Weight Conduits
2 bar 30mins with Standard Weight Conduits

IP69 Yes

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics



Non-metallic conduit systems

ATSTM™ Types SFAJ, CSF90J & SF45J swivel housing fittings

Type SFAJ

Straight fitting - Swivel housing / Materials: Polyamide (nylon) 66,
nickel plated brass thread/TPE / Colour: Black (BL) / Yellow (Y) Elastomer

	Part no.	Nominal conduit size (mm)	Metric thread
	AT16/M16/SFAJ/BLY	16	M16
	AT21/M20/SFAJ/BLY	21	M20
	AT28/M25/SFAJ/BLY	28	M25
	AT34/M32/SFAJ/BLY	34	M32
	AT42/M40/SFAJ/BLY	42	M40
	AT54/M50/SFAJ/BLY	54	M50
	AT54/M63/SFAJ/BLY	54	M63

Swivel metal housing for use with Jacob PERFECT cable glands

Type CSF90J

90° Elbow body - Swivel Housing / Materials: Polyamide (nylon) 66,
nickel plated brass thread/TPE / Colour: Black (BL) / Yellow (Y) Elastomer

	Part no.	Nominal conduit size (mm)	Metric thread
	AT16/M16/CSF90J/BLY	16	M16
	AT21/M20/CSF90J/BLY	21	M20
	AT28/M25/CSF90J/BLY	28	M25
	AT34/M32/CSF90J/BLY	34	M32
	AT42/M40/CSF90J/BLY	42	M40
	AT54/M50/CSF90J/BLY	54	M50
	AT54/M63/CSF90J/BLY	54	M63

Type SF45

45° Elbow body - Swivel housing / Materials: Polyamide (nylon) 66,
nickel plated brass thread/TPE / Colour: Black (BL) / Yellow (Y) Elastomer

	Part no.	Nominal conduit size (mm)	Metric thread
	AT16/M16/SF45J/BLY	16	M16
	AT21/M20/SF45J/BLY	21	M20
	AT28/M25/SF45J/BLY	28	M25
	AT34/M32/SF45J/BLY	34	M32
	AT42/M40/SF45J/BLY	42	M40
	AT54/M50/SF45J/BLY	54	M50
	AT54/M63/SF45J/BLY	54	M63

Swivel metal housing for use with Jacob PERFECT cable glands

Approvals



IP rating

Appropriate conduit

For use with: Type PA / PR / PF

IP40	Yes
IP65	Yes
IP68	Yes
4 bar 30mins with Heavy Weight Conduits 2 bar 30mins with Standard Weight Conduits	
IP69	N/A

Temperature range

Static applications: -50°C to +120°C
Moving applications: -45°C to +120°C

Fitting characteristics



Non-metallic conduit systems

ATS™ Type SFA - UNEF fittings

Type SFA - UNEF

Straight body - Swivel internal female thread / Materials: Polyamide (nylon) 66, aluminium/TPE /
Colour: Black (BL) / Yellow (Y) Elastomer

	Part no.	Nominal conduit size (mm)	Connector UNEF thread		Part no.	Nominal conduit size (mm)	Connector UNEF thread
	AT13/U063/SFA/BL*	13	5/8" - 24		AT21/U144/SFA/BL*	21	1 7/16" - 18
	AT13/U075/SFA/BL*	13	3/4" - 20		AT21/U175/SFA/BL*	21	1 3/4" - 18
	AT13/U088/SFA/BL*	13	7/8" - 20		AT28/U088/SFA/BL*	28	7/8" - 20
	AT16/U063/SFA/BL*	16	5/8" - 24		AT28/U094/SFA/BL*	28	1 5/16" - 20
	AT16/U075/SFA/BL*	16	3/4" - 20		AT28/U100/SFA/BL*	28	1" - 20
	AT16/U081/SFA/BL*	16	1 3/16" - 20		AT28/U119/SFA/BL*	28	1 3/16" - 18
	AT16/U088/SFA/BL*	16	7/8" - 20		AT28/U138/SFA/BL*	28	1 3/8" - 18
	AT16/U094/SFA/BL*	16	1 5/16" - 20		AT28/U144/SFA/BL*	28	1 7/16" - 18
	AT16/U100/SFA/BL*	16	1" - 20		AT28/U175/SFA/BL*	28	1 3/4" - 18
	AT16/U119/SFA/BL*	16	1 3/16" - 18		AT28/U200/SFA/BL*	28	2" - 16
	AT16/U131/SFA/BL*	16	1 5/16" - 18		AT28/U225/SFA/BL*	28	2 1/4" - 16
	AT21/U075/SFA/BL*	21	3/4" - 20		AT34/U100/SFA/BL*	34	1" - 20
	AT21/U088/SFA/BL*	21	7/8" - 20		AT34/U119/SFA/BL*	34	1 3/16" - 18
	AT21/U094/SFA/BL*	21	1 5/16" - 20		AT34/U144/SFA/BL*	34	1 7/16" - 18
	AT21/U100/SFA/BL*	21	1" - 20		AT34/U175/SFA/BL*	34	1 3/4" - 18
	AT21/U113/SFA/BL*	21	1 1/8" - 18		AT34/U200/SFA/BL*	34	2" - 16
	AT21/U119/SFA/BL*	21	1 3/16" - 18		AT42/U175/SFA/BL*	42	1 3/4" - 18
	AT21/U131/SFA/BL*	21	1 5/16" - 18		AT42/U200/SFA/BL*	42	2" - 16
	AT21/U138/SFA/BL*	21	1 3/8" - 18		—	—	—

For coupling to UNEF circular connectors
* = Y (yellow elastomer); B (blue elastomer)
Blue version MTO, subject to MOQ

Approvals	Blue Elastomer version only	IP rating	Appropriate conduit	Temperature range	Fitting characteristics
  	 Intertek	For use with: Type PA / PR / PF		Static applications: -50°C to +120°C	
		IP40	Yes	Moving applications: -45°C to +120°C	
		IP65	Yes		
		IP68	Yes 4 bar 30mins with Heavy Weight Conduits 2 bar 30mins with Standard Weight Conduits		
		IP69	Yes		

Non-metallic conduit systems

ATS™ Type CSF90 - UNEF fittings

Type CSF90 - UNEF

90° Elbow body - Swivel internal female thread / Materials: Polyamide (nylon) 66, nickel plated brass thread/TPE / Colour: Black (BL) / Yellow (Y) Elastomer

	Part no.	Nominal conduit size (mm)	Connector UNEF thread		Part no.	Nominal conduit size (mm)	Connector UNEF thread
	AT13/U063/CSF90/BL*	13	5/8" - 24		AT21/U144/CSF90/BL*	21	1 7/16" - 18
	AT13/U075/CSF90/BL*	13	3/4" - 20		AT21/U175/CSF90/BL*	21	1 3/4" - 18
	AT13/U088/CSF90/BL*	13	7/8" - 20		AT28/U088/CSF90/BL*	28	7/8" - 20
	AT16/U063/CSF90/BL*	16	5/8" - 24		AT28/U094/CSF90/BL*	28	1 5/16" - 20
	AT16/U075/CSF90/BL*	16	3/4" - 20		AT28/U100/CSF90/BL*	28	1" - 20
	AT16/U081/CSF90/BL*	16	1 3/16" - 20		AT28/U119/CSF90/BL*	28	1 3/16" - 18
	AT16/U088/CSF90/BL*	16	7/8" - 20		AT28/U138/CSF90/BL*	28	1 3/8" - 18
	AT16/U094/CSF90/BL*	16	1 5/16" - 20		AT28/U144/CSF90/BL*	28	1 7/16" - 18
	AT16/U100/CSF90/BL*	16	1" - 20		AT28/U175/CSF90/BL*	28	1 3/4" - 18
	AT16/U119/CSF90/BL*	16	1 3/16" - 18		AT28/U200/CSF90/BL*	28	2" - 16
	AT16/U131/CSF90/BL*	16	1 5/16" - 18		AT28/U225/CSF90/BL*	28	2 1/4" - 16
	AT21/U075/CSF90/BL*	21	3/4" - 20		AT34/U100/CSF90/BL*	34	1" - 20
	AT21/U088/CSF90/BL*	21	7/8" - 20		AT34/U119/CSF90/BL*	34	1 3/16" - 18
	AT21/U094/CSF90/BL*	21	1 5/16" - 20		AT34/U144/CSF90/BL*	34	1 7/16" - 18
	AT21/U100/CSF90/BL*	21	1" - 20		AT34/U175/CSF90/BL*	34	1 3/4" - 18
	AT21/U113/CSF90/BL*	21	1 1/8" - 18		AT34/U200/CSF90/BL*	34	2" - 16
	AT21/U119/CSF90/BL*	21	1 3/16" - 18		AT42/U175/CSF90/BL*	42	1 3/4" - 18
	AT21/U131/CSF90/BL*	21	1 5/16" - 18		AT42/U200/CSF90/BL*	42	2" - 16
	AT21/U138/CSF90/BL*	21	1 3/8" - 18		—	—	—

For coupling to UNEF circular connectors

* = Y (yellow elastomer); B (blue elastomer)

Blue version MTO, subject to MOQ

Approvals	Blue Elastomer version only	IP rating	Appropriate conduit	Temperature range	
  	 Intertek	For use with: Type PA / PR / PF		Static applications: -50°C to +120°C	
		IP40	Yes	Moving applications: -45°C to +120°C	
		IP65	Yes	Fitting characteristics	
		IP68	Yes 4 bar 30mins with Heavy Weight Conduits 2 bar 30mins with Standard Weight Conduits		
		IP69	Yes		

Non-metallic conduit systems

ATS™ Type SF45 - UNEF fittings

Type SF45 - UNEF

45° Elbow body - Swivel internal female thread / Materials: Polyamide (nylon) 66, aluminium/TPE /
Colour: Black (BL) / Yellow (Y), Blue (B) Elastomer

	Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	NPT thread
	AT13/U063/SF45/BL*	13	5/8" - 24	AT21/U144/SF45/BL*	21	1 7/16" - 18
	AT13/U075/SF45/BL*	13	3/4" - 20	AT21/U175/SF45/BL*	21	1 3/4" - 18
	AT13/U088/SF45/BL*	13	7/8" - 20	AT28/U088/SF45/BL*	28	7/8" - 20
	AT16/U063/SF45/BL*	16	5/8" - 24	AT28/U094/SF45/BL*	28	1 5/16" - 20
	AT16/U075/SF45/BL*	16	3/4" - 20	AT28/U100/SF45/BL*	28	1" - 20
	AT16/U081/SF45/BL*	16	1 3/16" - 20	AT28/U119/SF45/BL*	28	1 3/16" - 18
	AT16/U088/SF45/BL*	16	7/8" - 20	AT28/U138/SF45/BL*	28	1 3/8" - 18
	AT16/U094/SF45/BL*	16	1 5/16" - 20	AT28/U144/SF45/BL*	28	1 7/16" - 18
	AT16/U100/SF45/BL*	16	1" - 20	AT28/U175/SF45/BL*	28	1 3/4" - 18
	AT16/U119/SF45/BL*	16	1 3/16" - 18	AT28/U200/SF45/BL*	28	2" - 16
	AT16/U131/SF45/BL*	16	1 5/16" - 18	AT28/U225/SF45/BL*	28	2 1/4" - 16
	AT21/U075/SF45/BL*	21	3/4" - 20	AT34/U100/SF45/BL*	34	1" - 20
	AT21/U088/SF45/BL*	21	7/8" - 20	AT34/U119/SF45/BL*	34	1 3/16" - 18
	AT21/U094/SF45/BL*	21	1 5/16" - 20	AT34/U144/SF45/BL*	34	1 7/16" - 18
	AT21/U100/SF45/BL*	21	1" - 20	AT34/U175/SF45/BL*	34	1 3/4" - 18
	AT21/U113/SF45/BL*	21	1 1/8" - 18	AT34/U200/SF45/BL*	34	2" - 16
	AT21/U119/SF45/BL*	21	1 3/16" - 18	AT42/U175/SF45/BL*	42	1 3/4" - 18
	AT21/U131/SF45/BL*	21	1 5/16" - 18	AT42/U200/SF45/BL*	42	2" - 16
	AT21/U138/SF45/BL*	21	1 3/8" - 18	—	—	—

For coupling to UNEF circular connectors

* = Y (yellow elastomer); B (blue elastomer)

Blue version MTO, subject to MOQ

Approvals	Blue Elastomer version only	IP rating	Appropriate conduit	Temperature range	
  	 	For use with: Type PA / PR / PF		Static applications: -50°C to +120°C	
		IP40	Yes	Moving applications: -45°C to +120°C	
		IP65	Yes	Fitting characteristics	
		IP68	Yes		
		4 bar 30mins with Heavy Weight Conduits 2 bar 30mins with Standard Weight Conduits			
		IP69	Yes		

Non-metallic conduit systems

ATS™ Type U swivel couplers

Type U

Straight PA66 body - Swivel coupler / Materials: Polyamide (nylon) 66/TPE /
Colour: Black (BL) / Yellow (Y), Blue (B) Elastomer

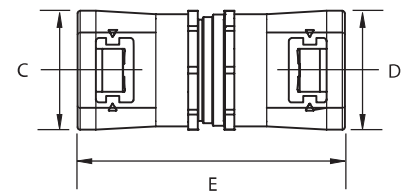
	Part no.	Nominal conduit size (mm)	Nominal dimensions / Conduit size (mm)		
			C	D	E
	AT13/A/U/BL*	13	21.2	21.2	70.0
	AT16/A/U/BL*	16	23.2	23.2	76.0
	AT21/A/U/BL*	21	30.2	30.2	82.0
	AT28/A/U/BL*	28	37.2	37.2	86.5
	AT34/A/U/BL*	34	44.2	44.2	89.0
	AT42/A/U/BL*	42	54.2	54.2	110.4
	AT48/A/U/BL*	48	65.0	65.0	118.2
	AT54/A/U/BL*	54	66.2	66.2	125.0

For coupling to corrugated flexible conduit

* = Y (yellow elastomer); B (blue elastomer)

Blue version MTO, subject to MOQ

Approvals	Blue Elastomer version only	IP rating	Appropriate conduit	Temperature range	Fitting characteristics
 	 Intertek	For use with: Type PA / PR / PF		Static applications: -50°C to +120°C	
		IP40	Yes	Moving applications: -45°C to +120°C	
		IP65	Yes		
		IP68	Yes		
			4 bar 30mins with Heavy Weight Conduits 2 bar 30mins with Standard Weight Conduits		
		IP69	Yes		



Non-metallic conduit systems

ATS™ Type FL/A panel mounting fittings

Type FL/A

Straight panel mounting-swivel flange / Materials: Polyamide (nylon) 66/TPE /
Colour: Black (BL) / Yellow (Y), Blue (B) Elastomer

		Nominal conduit size (mm)
	Part no.	
	AT16/FL/A/BL*	16
	AT21/FL/A/BL*	21
	AT28/FL/A/BL*	28
With integral face seal		
* = Y (yellow elastomer); B (blue elastomer)		
Blue version MTO, subject to MOQ		

Approvals	Blue Elastomer version only	IP rating	Appropriate conduit	Temperature range	Fitting characteristics
		For use with: Type PA / PR / PF		Static applications: -50°C to +120°C	
		IP40	Yes	Moving applications: -45°C to +120°C	
		IP65	Yes		
		IP68	Yes		
		4 bar 30mins with Heavy Weight Conduits			
		2 bar 30mins with Standard Weight Conduits			
		IP69	Yes		

Non-metallic conduit systems

ATSTM™ Types FL/C90 and FL/45 panel mounting fittings

Panel mounting Type FL/C90

90° Elbow body - Panel mounting swivel flange / Materials: Polyamide (nylon) 66/TPE /
Colour: Black (BL) / Yellow (Y), Blue (B) Elastomer

Part no.		Nominal conduit size (mm)
	AT13/FL/C90/BL*	13
	AT16/FL/C90/BL*	16
	AT21/FL/C90/BL*	21
	AT28/FL/C90/BL*	28
For panel mounting via 2 hole fixing & integral face seal * = Y (yellow elastomer); B (blue elastomer) Blue version MTO, subject to MOQ		

Approvals	Blue Elastomer version only	IP rating	Appropriate conduit	Temperature range	
 K035161	 Intertek	For use with: Type PA / PR / PF		Static applications: -50°C to +120°C	
		IP40	Yes	Moving applications: -45°C to +120°C	
		IP65	Yes	Fitting characteristics	
		IP68	Yes		
		4 bar 30mins with Heavy Weight Conduits 2 bar 30mins with Standard Weight Conduits			
 		IP69	Yes		

Panel mounting Type FL45

45° Elbow body - Panel mounting swivel flange / Materials: Polyamide (nylon) 66/TPE /
Colour: Black (BL) / Yellow (W), Blue (B) Elastomer

Part no.		Nominal conduit size (mm)
	AT16/FL/45/BL*	16
	AT21/FL/45/BL*	21
	AT28/FL/45/BL*	28
	With integral face seal * = Y (yellow elastomer); B (blue elastomer) Blue version MTO, subject to MOQ	

Approvals		Blue Elastomer version only		IP rating	Appropriate conduit	Temperature range	
 K035161  LOW VOLTAGE DIRECTIVE  c Intertek		For use with: Type PA / PR / PF			Static applications: -50°C to +120°C		
		IP40	Yes	Moving applications: -45°C to +120°C			
		IP65	Yes	Fitting characteristics			
		IP68	Yes				
		4 bar 30mins with Heavy Weight Conduits 2 bar 30mins with Standard Weight Conduits					
IP69		Yes					

Non-metallic conduit systems

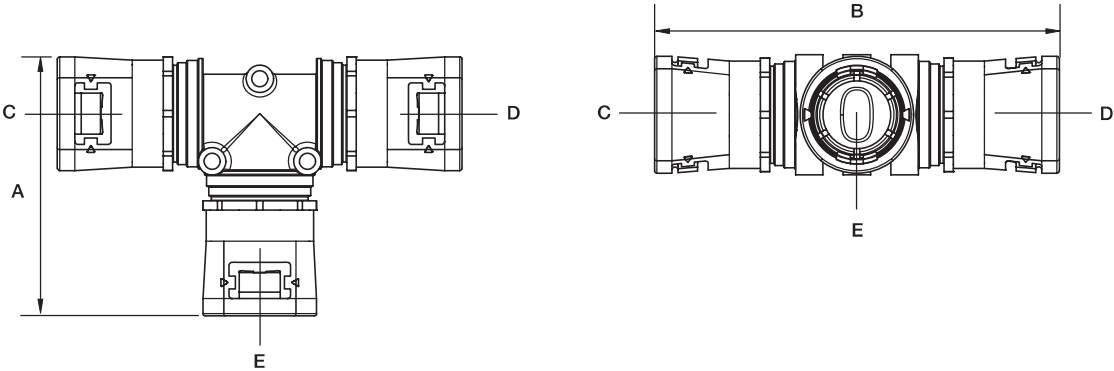
ATS™ Type T fittings

Type T

3 Way 'T' piece / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR) / Yellow (Y) Elastomer

		Nominal dimensions / Conduit size (mm)				
		Part no.	A	B	C	E
	21T	AT211316/T/BLY	82	129	21	13
		AT211321/T/BLY	82	122	21	13
		AT211613/T/BLY	83	129	21	16
		AT211616/T/BLY	83	129	21	16
		AT211621/T/BLY	83	122	21	16
		AT212113/T/BLY	75	129	21	13
		AT211616/T/BLY	83	129	21	16
		AT212121/T/BLY	75	122	21	21
	28T	AT212821/T/BLY	82	152	21	28
		AT281321/T/BLY	88	141	28	13
		AT281328/T/BLY	88	129	28	13
		AT281621/T/BLY	90	141	28	16
		AT281628/T/BLY	90	129	28	16
		AT282121/T/BLY	93	141	28	21
		AT282128/T/BLY	93	129	28	21
		AT282828/T/BLY	82	129	28	28
	34T	AT341634/T/BLY	98	139	34	16
		AT342128/T/BLY	104	150	34	21
		AT342134/T/BLY	104	139	34	21
		AT343434/T/BLY	91	139	34	34

Approvals	IP rating	Appropriate conduit	Temperature range
    	For use with: Type PA / PR / PF		Static applications: -50°C to +120°C
	IP66	Yes	Moving applications: -45°C to +120°C
	IP67	Yes	Fitting characteristics
	IP68	Yes	
		4 bar 30mins with Heavy Weight Conduits	
		2 bar 30mins with Standard Weight Conduits	
		IP69	Yes



Non-metallic conduit systems

ATS™ Type Y fittings

Type Y

3 Way 'T' piece / Materials: Polyamide (nylon) 66, / Colour: Black (BL), Grey (GR) / Yellow (Y) Elastomer

Nominal dimensions/conduit size (mm)							
Part no.		A	B	C	D	E	
	28Y	AT282113/Y/BLY	107.1	117.8	28	21	13
		AT282116/Y/BLY	110.6	117.8	28	21	16
		AT282121/Y/BLY	116.4	129.9	28	21	21
		AT282813/Y/BLY	108.7	124.6	28	28	13
		AT282816/Y/BLY	112.2	124.6	28	28	16
		AT282821/Y/BLY	116.6	124.6	28	28	21
		AT282828/Y/BLY	165.0	119.0	28	28	28

Approvals



IP rating

Appropriate conduit

For use with: Type PA / PR / PF

IP40

Yes

IP65

Yes

IP68

Yes

4 bar 30mins with Heavy Weight Conduits
2 bar 30mins with Standard Weight Conduits

IP69

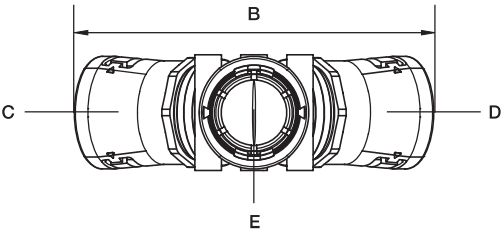
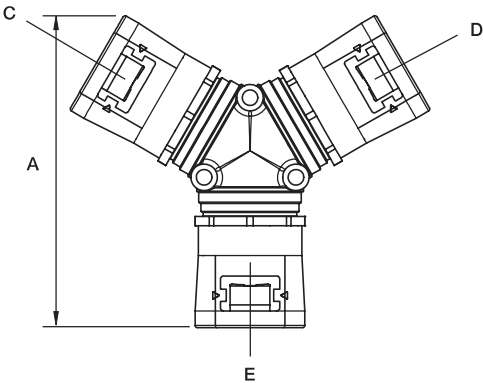
Yes

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics



Non-metallic conduit systems

Adaptalok AL Type A fittings

Type A

Straight fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL)



Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
AL10/M12/A/BL*	10	M12	AL10/PG7/A/BL*	10	PG7
–	–	–	AL10/PG9/A/BL*	10	PG9
AL13/M16/A/BL	13	M16	AL13/PG9/A/BL*	13	PG9
AL13/M20/A/BL*	13	M20	AL13/PG11/A/BL*	13	PG11
–	–	–	AL13/PG13/A/BL*	13	PG13,5
AL16/M16/A/BL	16	M16	AL16/PG9/A/BL	16	PG9
AL16/M20/A/BL	16	M20	AL16/PG11/A/BL	16	PG11
–	–	–	AL16/PG13/A/BL	16	PG13,5
–	–	–	AL16/PG16/A/BL	16	PG16
AL21/M20/A/BL	21	M20	AL21/PG11/A/BL	21	PG11
–	–	–	AL21/PG13/A/BL	21	PG13,5
AL21/M25/A/BL	21	M25	AL21/PG16/A/BL	21	PG16
AL28/M25/A/BL	28	M25	AL28/PG21/A/BL	28	PG21
AL28/M32/A/BL	28	M32	–	–	–
AL34/M32/A/BL	34	M32	AL34/PG29/A/BL	34	PG29
AL34/M40/A/BL	34	M40	–	–	–
AL42/M40/A/BL	42	M40	AL42/PG36/A/BL	42	PG36
AL42/M50/A/BL	42	M50	–	–	–
AL54/M50/A/BL	54	M50	AL54/PG48/A/BL	54	PG48
AL54/M63/A/BL	54	M63	–	–	–

Part no.	Nominal conduit size (mm)	PF thread	Part no.	Nominal conduit size (mm)	NPT thread (in)
AL10/PF025/A/BL*	10	1/4"	–	–	–
AL13/PF038/A/BL*	13	3/8"	AL13/038/A/BL*	13	3/8"
AL16/PF038/A/BL	16	3/8"	AL16/038/A/BL	16	3/8"
AL16/PF050/A/BL	16	1/2"	AL16/050/A/BL	16	1/2"
AL21/PF050/A/BL	21	1/2"	AL21/050/A/BL	21	1/2"
AL28/PF075/A/BL	28	3/4"	AL28/075/A/BL	28	3/4"
AL34/PF100/A/BL	34	1"	AL34/100/A/BL	34	1"
AL42/PF125/A/BL	42	1 1/4"	AL42/125/A/BL	42	1 1/4"
AL54/PF150/A/BL	54	1 1/2"	AL54/150/A/BL	54	1 1/2"
AL54/PF200/A/BL	54	2"	–	–	–

For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY

*These parts are not covered by the UR certification

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics



For ALS Seal see page 79

Non-metallic conduit systems

Adaptalok AL Type C90 fittings

Type C90

90° elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL)



Part no.	Nominal conduit size (mm)	Metric thread
AL10/M12/C90/BL*	10	M12
AL13/M16/C90/BL*	13	M16
AL16/M16/C90/BL	16	M16
AL16/M20/C90/BL	16	M20
–	–	–
AL21/M20/C90/BL	21	M20
–	–	–
AL28/M25/C90/BL	28	M25
AL34/M32/C90/BL	34	M32
AL42/M40/C90/BL	42	M40
AL54/M50/C90/BL	54	M50
AL54/M63/C90/BL	54	M63

Part no.	Nominal conduit size (mm)	PG thread
AL10/PG7/C90/BL*	10	PG7
AL13/PG9/C90/BL*	13	PG9
AL16/PG9/C90/BL	16	PG9
AL16/PG11/C90/BL	16	PG11
AL16/PG13/C90/BL	16	PG13,5
AL21/PG13/C90/BL	21	PG31,5
AL21/PG16/C90/BL	21	PG16
AL28/PG21/C90/BL	28	PG21
AL34/PG29/C90/BL	34	PG29
AL42/PG36/C90/BL	42	PG36
AL54/PG48/C90/BL	54	PG48
–	–	–

Part no.	Nominal conduit size (mm)	PF thread (in)
AL13/PFO38/C90/BL*	13	3/8
AL16/PFO38/C90/BL	16	3/8
AL16/PFO50/C90/BL	16	1/2
AL21/PFO50/C90/BL	21	1/2
AL28/PFO75/C90/BL	28	3/4
AL34/PF100/C90/BL	34	1
AL42/PF125/C90/BL	42	1 1/4
AL54/PF150/C90/BL	54	1 1/2
AL54/PF200/C90/BL	54	2

Part no.	Nominal conduit size (mm)	NPT thread (in)
AL13/O38/C90/BL*	13	3/8
–	–	–
AL16/O50/C90/BL	16	1/2
AL21/O50/C90/BL	21	1/2
AL28/O75/C90/BL	28	3/4
AL34/O100/C90/BL	34	1
AL42/O125/C90/BL	42	1 1/4
AL54/O150/C90/BL	54	1 1/2
AL54/O200/C90/BL	54	2

For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY

*These parts are not covered by the UR certification

Approvals



For ALS Seal see page 79

IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Non-metallic conduit systems

Adaptalok AL Type 45 and push-in fittings

Type 45

45° Elbow fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL)

	Part no.	Nominal conduit size (mm)	Metric thread		Part no.	Nominal conduit size (mm)	PG thread
	AL13/M16/45/BL*	13	M16		AL13/PG9/45/BL*	13	PG9
	AL16/M16/45/BL	16	M16		AL16/PG11/45/BL	16	PG11
	AL16/M20/45/BL	16	M20		AL16/PG13/45/BL	16	PG13,5
	AL21/M20/45/BL	21	M20		AL21/PG13/45/BL	21	PG13,5
	–	–	–		AL21/PG16/45/BL	21	PG16
	AL28/M25/45/BL	28	M25		AL28/PG21/45/BL	28	PG21
	AL34/M32/45/BL	34	M32		AL34/PG29/45/BL	34	PG29
	AL42/M50/45/BL	42	M40		AL42/PG36/45/BL	42	PG36
	AL54/M50/45/BL	54	M50		AL54/PG48/45/BL	54	PG48
	AL54/M63/45/BL	54	M63		–	–	–

For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY

*These parts are not covered by the UR certification

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Push-in

Straight fitting - Fixed external male thread / Materials: Polyamide (nylon) 66 / Colour: Black (BL)

	Part no.	Nominal conduit size (mm)
	AL16/KM20/A/BL	16
	AL21/KM20/A/BL	21

Inserts into a 20mm knockout, panel thickness up to 4mm, no locknut required

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP40 More offered when fitted with ALS Seal Yes

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

For ALS Seal see page 79

Non-metallic conduit systems

Adaptalok AL 3 way couplers and swivel couplers

3-Way Coupler

3-Way PA66 fitting / Materials: Polyamide (nylon) 66 / Colour: Black (BL)



Part no.

Part no.	Nominal conduit size combination (mm)
AL131010/Y/BL	13x10x10
AL161313/Y/BL	16x13x13
AL211616/Y/BL	21x16x16
AL282121/Y/BL	28x21x21

For coupling three corrugated flexible conduits

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF / PK

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Swivel coupler

Straight PA66 body swivel coupler / Materials: Polyamide (nylon) 66 + aluminium / Colour: Black (BL)



Part no.

Part no.	Nominal conduit size (mm)
AL13/A/U/BL	13
AL16/A/U/BL	16
AL21/A/U/BL	21
AL28/A/U/BL	28
AL34/A/U/BL	34
AL42/A/U/BL	42
AL54/A/U/BL	54

For coupling two corrugated flexible conduits

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics



For ALS Seal see page 79

Non-metallic conduit systems

Adaptalok AL Types FL/A, FL/C90 and FL/90 panel mounting fittings

Type FL/A

Straight panel mounting swivel flange / Materials: Polyamide (nylon) 66 / Colour: Black (BL)



Part no.

Nominal conduit size (mm)

AL16/FL/A/BL	16
AL21/FL/A/BL	21
AL28/FL/A/BL	28
AL54/FL/A/BL	54

With integral face seal

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics



Type FL/C90

90° Elbow body - Panel mount swivel flange / Materials: Polyamide (nylon) 66 / Colour: Black (BL)



Part no.

Nominal conduit size (mm)

AL13/FL/C90/BL	13
AL16/FL/C90/BL	16
AL21/FL/C90/BL	21
AL28/FL/C90/BL	28

For panel mounting via 2 hole fixing & integral face seal

Type FL/90

90° Elbow body - Panel mount flange / Materials: Polyamide (nylon) 66 / Colour: Black (BL), Grey (GR)



Part no.

Nominal conduit size (mm)

AL34/FL/90/BL	34
AL42/FL/90/BL	42
AL54/FL/90/BL	54

For panel mounting via 4 hole fixing & integral face seal

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics (FLC/90 ONLY)



For ALS Seal see page 79

Non-metallic conduit systems

Adaptalok AL Types FL/45 and jumbo panel mounting fittings

Type FL/45

45° Panel mounting swivel flange / Materials: Polyamide (nylon) 66 / Colour: Black (BL)

	Part no.	Nominal conduit size (mm)
	AL16/FL/45/BL	16
	AL21/FL/45/BL	21
	AL28/FL/45/BL	28
	AL54/FL/45/BL	54
With integral face seal		

Approvals	IP rating	Appropriate conduit	Temperature range	
   	For use with: Type PA / CP / PR / PF		Static applications: -50°C to +120°C	
	IP66	Yes	Moving applications: -45°C to +120°C	
	IP67	Yes + ALS Seal		
	IP68	Yes + ALS Seal		
	IP69	Yes + ALS Seal		
			Fitting characteristics	

Jumbo Type FL/A

Straight panel mounting swivel flange / Materials: Polyamide (nylon) 66 / Colour: Black (BL)

	Part no.	Nominal conduit size (mm)
	ADC80/FL/A/BL	80
	ADC106/FL/A/BL	106
For coupling to UNEF circular connectors		

Approvals	IP rating	Appropriate conduit	Temperature range
  	For use with: Type PA / CP / PR / PF		Static applications: -50°C to +120°C
	IP40	Yes	Moving applications: -45°C to +120°C
	IP65	Yes + ALS Seal	

Non-metallic conduit systems

Adaptalok AL Types SA & CS90 fittings

Type SA

Straight fitting - Swivel external male thread / Materials: Polyamide (nylon) 66, nickel plated brass thread / Colour: Black (BL)

	Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
	AL13/M16/SA/BL*	13	M16	AL13/PG9/SA/BL*	13	PG9
	AL16/M16/SA/BL	16	M16	AL16/PG11/SA/BL	16	PG11
	AL21/M20/SA/BL	21	M20	AL21/PG13/SA/BL	21	PG13,5
	—	—	—	AL21/PG16/SA/BL	21	PG16
	AL28/M25/SA/BL	28	M25	AL28/PG21/SA/BL	28	PG21
	AL34/M32/SA/BL	34	M32	AL34/PG29/SA/BL	34	PG29
	AL42/M40/SA/BL	42	M40	AL42/PG36/SA/BL	42	PG36
	AL54/M50/SA/BL	54	M50	AL54/PG48/SA/BL	54	PG48
	AL54/M63/SA/BL	54	M63	—	—	—

For insertion into threaded entries & knockouts using a locknut. Order locknut separately

*These parts are not covered by the UR certification

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics



Type CS90

90° Elbow fitting - Swivel external male thread / Materials: Polyamide (nylon) 66, nickel plated brass thread / Colour: Black (BL)

	Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
	AL13/M16/CS90/BL*	13	M16	AL13/PG9/CS90/BL*	13	PG9
	AL16/M16/CS90/BL	16	M16	AL16/PG11/CS90/BL	16	PG11
	AL21/M20/CS90/BL	21	M20	AL21/PG13/CS90/BL	21	PG13,5
	—	—	—	AL21/PG16/CS90/BL	21	PG16
	AL28/M25/CS90/BL	28	M25	AL28/PG21/CS90/BL	28	PG21
	AL34/M32/CS90/BL	34	M32	AL34/PG29/CS90/BL	34	PG29
	AL42/M40/CS90/BL	42	M40	AL42/PG36/CS90/BL	42	PG36
	AL54/M50/CS90/BL	54	M50	AL54/PG48/CS90/BL	54	PG48
	AL54/M63/CS90/BL	54	M63	—	—	—

For insertion into threaded entries & knockouts using a locknut. Order locknut separately

*These parts are not covered by the UR certification

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics



Non-metallic conduit systems

Adaptalok AL Types S45 & SFA fittings

Type S45 - Adaptalok

45° Elbow body - Swivel external male thread / Materials: Polyamide (nylon) 66, nickel plated brass thread / Colour: Black (BL)

	Part no.	Nominal conduit size (mm)	Metric thread		Part no.	Nominal conduit size (mm)	PG thread
	AL13/M16/S45/BL*	13	M16		AL13/PG9/S45/BL*	13	PG9
	AL16/M16/S45/BL	16	M16		AL16/PG11/S45/BL	16	PG11
	AL21/M20/S45/BL	21	M20		AL21/PG13/S45/BL	21	PG13,5
	—	—	—		AL21/PG16/S45/BL	21	PG16
	AL28/M25/S45/BL	28	M25		AL28/PG21/S45/BL	28	PG21
	AL34/M32/S45/BL	34	M32		AL34/PG29/S45/BL	34	PG29
	AL42/M40/S45/BL	42	M40		AL42/PG36/S45/BL	42	PG36
	AL54/M50/S45/BL	54	M50		AL54/PG48/S45/BL	54	PG48
	AL54/M63/S45/BL	54	M63		—	—	—

For insertion into threaded entries & knockouts using a locknut. Order locknut separately

*These parts are not covered by the UR certification

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics



Type SFA - Adaptalok

Straight body - Swivel internal female thread / Materials: Polyamide (nylon) 66, nickel plated brass thread / Colour: Black (BL)

	Part no.	Nominal conduit size (mm)	Metric thread		Part no.	Nominal conduit size (mm)	PG thread
	AL13/M16/SFA/BL	13	M16		AL13/PG9/SFA/BL	13	PG9
	AL16/M16/SFA/BL	16	M16		AL16/PG11/SFA/BL	16	PG11
	AL21/M20/SFA/BL	21	M20		AL21/PG13/SFA/BL	21	PG13,5
	—	—	—		AL21/PG16/SFA/BL	21	PG16
	AL28/M25/SFA/BL	28	M25		AL28/PG21/SFA/BL	28	PG21
	AL34/M32/SFA/BL	34	M32		AL34/PG29/SFA/BL	34	PG29
	AL42/M40/SFA/BL	42	M40		AL42/PG36/SFA/BL	42	PG36
	AL54/M50/SFA/BL	54	M50		AL54/PG48/SFA/BL	54	PG48
	AL54/M63/SFA/BL	54	M63		—	—	—

For attaching to external threads & other fittings

Swivel internal female thread Black (BL) as standard or Grey (GR) - RAL 7031

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics



Non-metallic conduit systems

Adaptalok AL Types CSF90 & SF45 fittings

Type CSF90

90° Elbow fitting - Swivel internal female thread / Materials: Polyamide (nylon) 66, nickel plated brass thread / Colour: Black (BL)



Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
AL13/M16/CSF90/BL	13	M16	AL13/PG9/CSF90/BL	13	PG9
AL16/M16/CSF90/BL	16	M16	AL16/PG11/CSF90/BL	16	PG11
AL21/M20/CSF90/BL	21	M20	AL21/PG13/CSF90/BL	16	PG13,5
—	—	—	AL21/PG16/CSF90/BL	21	PG16
AL28/M25/CSF90/BL	28	M25	AL28/PG21/CSF90/BL	28	PG21
AL34/M32/CSF90/BL	34	M32	AL34/PG29/CSF90/BL	34	PG29
AL42/M40/CSF90/BL	42	M40	AL42/PG36/CSF90/BL	42	PG36
AL54/M50/CSF90/BL	54	M50	AL54/PG48/CSF90/BL	54	PG48

For attachment to external threads & other fittings

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics



Type SF45

45° Elbow fitting - Swivel internal female thread / Materials: Polyamide (nylon) 66, nickel plated brass thread / Colour: Black (BL)



Part no.	Nominal conduit size (mm)	Metric thread	Part no.	Nominal conduit size (mm)	PG thread
AL13/M16/SF45/BL	13	M16	AL13/PG9/SF45/BL	13	PG9
AL16/M16/SF45/BL	16	M16	AL16/PG11/SF45/BL	16	PG11
AL21/M20/SF45/BL	21	M20	AL21/PG13/SF45/BL	16	PG13,5
—	—	—	AL21/PG16/SF45/BL	21	PG16
AL28/M25/SF45/BL	28	M25	AL28/PG21/SF45/BL	28	PG21
AL34/M32/SF45/BL	34	M32	AL34/PG29/SF45/BL	42	PG29
AL42/M40/SF45/BL	40	M40	AL42/PG36/SF45/BL	48	PG36
AL54/M50/SF45/BL	50	M50	AL54/PG48/SF45/BL	54	PG48
AL54/M63/SF45/BL	63	M63	—	—	—

For attachment to external threads & other fittings

*These parts are not covered by the UR certification

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics



For ALS Seal see page 79

Non-metallic conduit systems

Adaptalok AL Type A - UNEF fittings

Type AL

Straight body - Swivel internal female thread / Materials: Polyamide (nylon) 66 & aluminium / Colour: Black (BL) only



Part no.	Nominal conduit size (mm)	Connector UNEF thread	Part no.	Nominal conduit size (mm)	Connector UNEF thread
AL13/U063/A/000620	13	5/8" - 24	AL21/U144/A/000620	21	1 7/16" - 18
AL13/U075/A/000620	13	3/4" - 20	AL21/U175/A/000620	21	1 3/4" - 18
AL13/U088/A/000620	13	7/8" - 20	AL28/U094/A/000620	28	1 5/16" - 20
AL16/U063/A/000620	16	5/8" - 24	AL28/U100/A/000620	28	1" - 20
AL16/U075/A/000620	16	3/4" - 20	AL28/U119/A/000620	28	1 3/16" - 18
AL16/U081/A/000620	16	1 3/16" - 20	AL28/U138/A/000620	28	1 3/8" - 18
AL16/U088/A/000620	16	7/8" - 20	AL28/U144/A/000620	28	1 7/16" - 18
AL16/U094/A/000620	16	1 5/16" - 20	AL28/U175/A/000620	28	1 3/4" - 18
AL16/U100/A/000620	16	1" - 20	AL34/U100/A/000620	34	1" - 20
AL16/U119/A/000620	16	1 3/16" - 18	AL34/U119/A/000620	34	1 3/16" - 18
AL16/U131/A/000620	16	1 5/16" - 18	AL34/U144/A/000620	34	1 7/16" - 18
AL21/U075/A/000620	21	3/4" - 20	AL34/U175/A/000620	34	1 3/4" - 18
AL21/U088/A/000620	21	7/8" - 20	AL34/U200/A/000620	34	2" - 16
AL21/U094/A/000620	21	1 5/16" - 20	AL42/U200/A/000620	42	2" - 16
AL21/U100/A/000620	21	1" - 20			
AL21/U113/A/000620	21	1 1/8" - 18			
AL21/U119/A/000620	21	1 3/16" - 18			
AL21/U131/A/000620	21	1 5/16" - 18			

For coupling to UNEF circular connectors

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics



For ALS Seal see page 79

Non-metallic conduit systems

Adaptalok AL Type C90 - UNEF fittings

Type AL

90° Elbow fitting - Swivel internal female thread / Materials: Polyamide (nylon) 66 & aluminium / Colour: Black (BL) only



Part no.	Nominal conduit size (mm)	Connector UNEF thread	Part no.	Nominal conduit size (mm)	Connector UNEF thread
AL13/U063/C90/000620	13	5/8" - 24	AL21/U144/C90/000620	21	1 7/16" - 18
AL13/U075/C90/000620	13	3/4" - 20	AL21/U175/C90/000620	21	1 3/4" - 18
AL13/U088/C90/000620	16	7/8" - 20	AL28/U088/C90/000620	28	7/8" - 20
AL16/U063/C90/000620	16	5/8" - 24	AL28/U094/C90/000620	28	1 5/16" - 20
AL16/U075/C90/000620	16	3/4" - 20	AL28/U100/C90/000620	28	1" - 20
AL16/U081/C90/000620	16	1 3/16" - 20	AL28/U119/C90/000620	28	1 3/16" - 18
AL16/U088/C90/000620	16	7/8" - 20	AL28/U138/C90/000620	28	1 3/8" - 18
AL16/U094/C90/000620	16	1 5/16" - 20	AL28/U144/C90/000620	28	1 7/16" - 18
AL16/U100/C90/000620	16	1" - 20	AL28/U175/C90/000620	28	1 3/4" - 18
AL16/U119/C90/000620	16	1 3/16" - 18	AL28/U200/C90/000620	28	2" - 16
AL16/U131/C90/000620	16	1 5/16" - 18	AL28/U225/C90/000620	28	2 1/4" - 16
AL21/U075/C90/000620	21	3/4" - 20	AL34/U100/C90/000620	34	1" - 20
AL21/U088/C90/000620	21	7/8" - 20	AL34/U119/C90/000620	34	1 3/16" - 18
AL21/U094/C90/000620	21	1 5/16" - 20	AL34/U144/C90/000620	34	1 7/16" - 18
AL21/U100/C90/000620	21	1" - 20	AL34/U175/C90/000620	34	1 3/4" - 18
AL21/U113/C90/000620	21	1 1/8" - 18	AL34/U200/C90/000620	34	2" - 16
AL21/U119/C90/000620	21	1 3/16" - 18	AL42/U175/C90/000620	42	1 3/4" - 18
AL21/U131/C90/000620	21	1 5/16" - 18	AL42/U200/C90/000620	42	2" - 16
AL21/U138/C90/000620	21	1 3/8" - 18	—	—	—

For coupling to UNEF circular connectors

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics



For ALS Seal see page 79

Non-metallic conduit systems

Adaptalok AL Type 45 - UNEF fittings

Type AL

45° Elbow fitting - Swivel internal female thread / Materials: Polyamide (nylon) 66 & aluminium / Colour: Black (BL) only



Part no.	Nominal conduit size (mm)	Connector UNEF thread
AL13/U063/45/000620	13	$\frac{5}{8}$ " - 24
AL13/U075/45/000620	13	$\frac{3}{4}$ " - 20
AL16/U081/45/000620	16	$1\frac{3}{16}$ " - 20
AL16/U094/45/000620	16	$1\frac{5}{16}$ " - 20
AL16/U131/45/000620	16	$1\frac{5}{16}$ " - 18
AL21/U100/45/000620	21	1" - 20
AL21/U119/45/000620	21	$1\frac{3}{16}$ " - 18
AL21/U138/45/000620	21	$1\frac{3}{8}$ " - 18
AL21/U144/45/000620	21	$1\frac{7}{16}$ " - 18
AL21/U175/45/000620	21	$1\frac{3}{4}$ " - 18
AL28/U088/45/000620	28	$\frac{7}{8}$ " - 20
AL28/U094/45/000620	28	$1\frac{5}{16}$ " - 20
AL28/U144/45/000620	28	$1\frac{7}{16}$ " - 18
AL34/U144/45/000620	34	$1\frac{7}{16}$ " - 18
AL34/U175/45/000620	34	$1\frac{3}{4}$ " - 18

For coupling to UNEF circular connectors

Approvals



IP rating

Appropriate conduit

For use with: Type PA / CP / PR / PF

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69	Yes + ALS Seal

Temperature range

Static applications: -50°C to +120°C

Moving applications: -45°C to +120°C

Fitting characteristics



For ALS Seal see page 79