

ANA-QUICK CONDUIT SPECIFICATIONS

Type	Material	Wall	Size Range	Flexibility	Temperature	IP Rating	Crush	Approvals
AC6L	PA6 Nylon	Light	7 - 48	High	-40°C +105°C	IP68	Medium	 
AC6S	PA6 Nylon	Standard	7 - 48	Medium	-40°C +105°C	IP68	High	 
AC6R	PA6 Nylon	Medium	7 - 48	High	-10°C +105°C	IP68	Medium	 
AC12S	PA12 Nylon	Standard	7 - 95	Very High	-50°C +90°C	IP68	Medium	

ANA-QUICK Conduit System is CE approved and based on the EN 50086 Classifications. The table below summarizes the classification of the two types of ANA-QUICK Conduit.

ANA-QUICK	AC6L	AC6S	AC6R	AC12S
Compression Resistance	**	***	**	**
Impact Resistance	**	***	**	**
Min. Temperature	-40° C	-40° C	-40° C	-50° C
Max. Temperature	+105° C	+105° C	+105° C	+90° C
Bending Resistance	Very Flexible	Very Flexible	Very Flexible	Extremely Flexible
IP Rating	IP68	IP68	IP68	IP68
Corrosion Resistance	Very High	Very High	Very High	Very High
Flame Resistance	Self-Extinguishing	Self-Extinguishing	Self-Extinguishing	Self-Extinguishing
UL94	HB	V2	V0	V2

The ANA-QUICK SYSTEM is based on the European standard of conduit sizes, which are referred to as NW sizes. The reference chart below converts those into the matching trade sizes used in North America.

Trade Size	Inside Diameter Range	Equivalent	
		ANA-QUICK	Int. Diameter
1/4"	.345-.260"	NM 7.5	.264"
5/16"	.390-.405"	NM 10	.390"
3/8"	.484-.504"	NW 12	.480"
1/2"	.622-.642"	NW 17	.654"
3/4"	.820-.840"	NW 23	.913"
1"	1.0411-1.056"	NW 29	1.142"
1-1/4"	1.380-1.410"	NW 36	1.417"
1-1/2"	1.575-1.610"	NW 48	1.878"

CONDUIT SYSTEM AND ACCESSORIES PART NUMBER SCHEME

AC6L - 17B

CONDUITS:
AC__ - __ (page 8-11)

Color:
B Black

Profile (AC Series):
6L Nylon 6 Thin Wall
6S Nylon 6 Standard Wall
6R Nylon 6 Medium Wall
12S Nylon 12 Standard Wall

NW Trade Size (ID):

07	7.5mm	1/4"
10	10mm	5/16"
12	12mm	3/8"
17	17mm	1/2"
23	23mm	3/4"
29	29mm	1"
36	36mm	1-1/4"
48	48mm	1-1/2"

ARNS - 07B

ACCESSORIES:
AR__ - __ (page 18-21)

Color:
 B Black
 M Metallic

Accessories (AR Series):
NY Nylon "Y" Connector
NT Nylon "T" Connector
NS Nylon Support with Lid
NL Nylon Lock Nut
SL Nickel Plated Lock Nut
OR O-Rings
SW Sealing Washers

NW Trade Size (ID):

07	7.5mm	1/4"
10	10mm	5/16"
12	12mm	3/8"
17	17mm	1/2"
23	23mm	3/4"
29	29mm	1"
36	36mm	1-1/4"
48	48mm	1-1/2"

ANA-QUICK® Nylon

PA6 CONDUIT - EXTRA FLEXIBLE



DESCRIPTION:

For insulation, mechanical protection and environmental preservation of cables in the electrical installation of machinery, industrial equipment and telecommunications.



Type AC6L conduits are corrugated polyamide conduits specially designed for machine tool applications that require protection for cables. Type AC6L is a standard wall conduit, which is UL Recognized.

SPECIFICATIONS:

- Made of specially modified polyamide (PA6)
- Special patented profile for housing the O-Ring sealing to provide a higher IP protection
- Free of halogen, phosphorous and cadmium
- Self-extinguishing (HB according to UL94)
- Temperature range: -40°C to +105°C (150°C short term)
- UV resistant
- Color: black

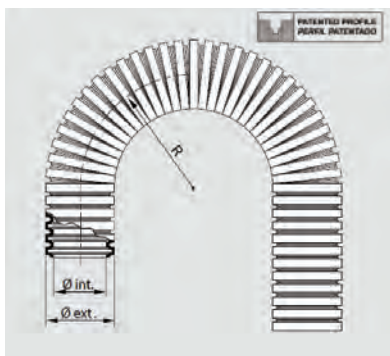
APPLICATIONS:

- Machine building, switch cabinets, movable machinery, rail vehicles, commercial vehicles, construction machinery.

CONDUIT: TYPE AC6L - LIGHT WALL



Size NW	Item ID	Diameter mm (inches)		Bend Radius	Pkg. Meters
		Inside	Outside		
7 (1/4")	AC6L-07B	6.3 (0.248)	10.0 (0.394)	15	50
10 (5/16")	AC6L-10B	9.7 (0.382)	13.0 (0.512)	20	50
12 (3/8")	AC6L-12B	12.2 (0.480)	15.8 (0.622)	30	50
17 (1/2")	AC6L-17B	16.8 (0.661)	21.2 (0.835)	40	50
23 (3/4")	AC6L-23B	22.6 (0.890)	28.5 (1.122)	55	50
29 (1")	AC6L-29B	28.3 (1.114)	34.5 (1.358)	65	50
36 (1-1/4")	AC6L-36B	36.3 (1.429)	42.5 (1.673)	80	30
48 (1-1/2")	AC6L-48B	47.4 (1.866)	54.5 (2.146)	95	30



PA6 CONDUIT - EXTRA FLEXIBLE



DESCRIPTION:

For insulation, mechanical protection and environmental preservation of cables in the electrical installation of machinery, industrial equipment, railway and telecommunications.



Type AC6S conduits are corrugated polyamide conduits specially designed for machine tool applications that require protection for cables. Type AC6S is a standard wall conduit, which is UL Recognized.

SPECIFICATIONS:

- Construction: Corrugated conduit from Modified Polyamide (PA6), halogen free
- Flame Properties: Class V2, UL-94, self-extinguishing
- Resistant: alcohol, greases, fuels, mineral spirits, weak bases, weak acids, and UV
- Temperature Range: -40°C to +105C (intermittent to 150°C)
- Color: Black
- Approvals: UL Recognized, RoHS Compliant

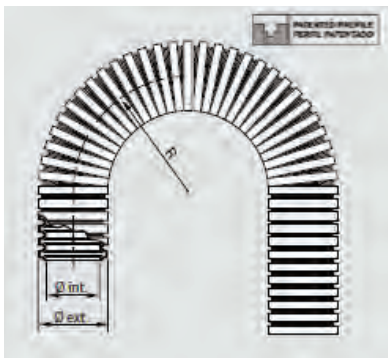
APPLICATIONS:

- Machine building, switch cabinets, movable machinery
- Rail vehicles, commercial vehicles, construction machinery
- For high mechanical strength

CONDUIT: TYPE AC6S - STANDARD WALL



Size NW	Item ID	Diameter mm (inches)		Bend Radius	Pkg. Meters
		Inside	Outside		
7 (1/4")	AC6S-07B	6.2 (0.244)	10.0 (0.394)	20	50
10 (5/16")	AC6S-10B	9.6 (0.378)	13.0 (0.512)	25	50
12 (3/8")	AC6S-12B	12.0 (0.472)	15.7 (0.618)	30	50
17 (1/2")	AC6S-17B	16.5 (0.650)	21.2 (0.835)	50	50
23 (3/4")	AC6S-23B	22.3 (0.878)	28.5 (1.122)	60	50
29 (1")	AC6S-29B	28.2 (1.110)	34.5 (1.358)	60	50
36 (1-1/4")	AC6S-36B	36.0 (1.417)	42.5 (1.673)	70	30
48 (1-1/2")	AC6S-48B	47.1 (1.854)	54.5 (2.146)	100	30



PA6 CONDUIT - EXTRA FLEXIBLE



DESCRIPTION:

For insulation, mechanical protection and environmental preservation of cables in the electrical installation specially in passenger areas of railway coaches, railway tunnels, or underground stations and general installations with special fire and smoke requirements.



Type AC6R conduits are corrugated polyamide conduits specially designed for machine tool applications that require protection for cables. Type AC6R is a standard wall conduit, which is UL Recognized.

SPECIFICATIONS:

- Construction: Corrugated conduit from Modified Polyamide (PA6), halogen free
- Flame Properties: Class V0, UL-94, self-extinguishing
- Resistant: Alcohol, greases, fuels, mineral spirits, weak bases, weak acids, and UV
- Temperature Range: -40°C to +105°C (intermittent to 150°C)
- Color: Black
- Approvals: UL Recognized, RoHS Compliant, ASTM-162, ASTM-662, SMP-800C

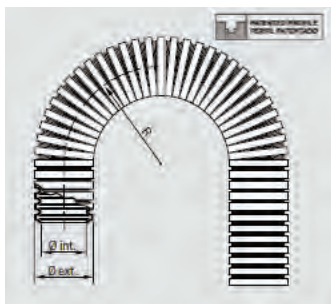
APPLICATIONS:

- Machine building, switch cabinets, movable machinery
- Rail vehicles, commercial vehicles, construction machinery
- For high mechanical strength

CONDUIT: TYPE AC6R - MEDIUM WALL



Size NW	Item ID	Diameter mm (inches)		Bend Radius	Pkg. Meters
		Inside	Outside		
7 (1/4")	AC6R-07B	6.4 (0.252)	10.0 (0.394)	15	50
10 (5/16")	AC6R-10B	9.8 (0.386)	13.0 (0.512)	20	50
12 (3/8")	AC6R-12B	12.3 (0.484)	15.8 (0.622)	30	50
17 (1/2")	AC6R-17B	16.9 (0.665)	21.2 (0.835)	40	50
23 (3/4")	AC6R-23B	22.7 (0.894)	28.5 (1.122)	55	50
29 (1")	AC6R-29B	28.4 (1.118)	34.5 (1.358)	65	50
36 (1-1/4")	AC6R-36B	36.4 (1.433)	42.5 (1.673)	80	30
48 (1-1/2")	AC6R-48B	47.5 (1.870)	54.5 (2.146)	95	30



PA 12 CONDUITS - EXTRA FLEXIBLE



DESCRIPTION:

For insulation, mechanical protection and environmental preservation of cables in dynamic applications. They offer high flexibility and an outstanding resistance to abrasion.



Type AC12S conduits are corrugated polyamide conduits specially designed for machine tool applications that require protection for cables. Type AC12S is a standard wall conduit.

SPECIFICATIONS:

- Construction: Corrugated conduit from Modified Polyamide (PA12), halogen free
- Flame Properties: Class V2, UL-94, self-extinguishing
- Resistant: Alcohol, greases, fuels, mineral spirits, weak bases, and weak acids
- Temperature Range: -50°C to +90°C (intermittent to 140°C)
- Color: Black
- Approvals: RoHS Compliant

APPLICATIONS:

- Machine building, switch cabinets, movable machinery
- Rail vehicles, commercial vehicles, construction machinery
- For high mechanical strength
- Robotic dress packages

CONDUIT: TYPE AC12S - STANDARD



Size NW	Item ID	Diameter mm (inches)		Bend Radius mm		Pkg. Meters
		Inside Diameter	Outside Diameter	Static	Dynamic	
7 (1/4")	AC12S-07B	6.5 (.256)	10.0 (0.394)	20	45	50
10 (5/16")	AC12S-10B	9.5 (.374)	13.0 (0.512)	30	60	50
12 (3/8")	AC12S-12B	12.0 (0.472)	15.8 (0.622)	35	75	50
17 (1/2")	AC12S-17B	16.4 (0.646)	21.2 (0.835)	40	90	50
23 (3/4")	AC12S-23B	22.6 (0.890)	28.5 (1.122)	55	115	50
29 (1")	AC12S-29B	28.1 (1.106)	34.5 (1.358)	70	140	50
36 (1-1/4")	AC12S-36B	36.0 (1.417)	42.5 (1.673)	80	200	30
48 (1-1/2")	AC12S-48B	47.5 (1.870)	54.5 (2.146)	100	230	30

