

## NUE95A, US98A, UE95A Series



### Ordering code

**NUE95A 1/4 X 5/32 - 250 BU**

①                      ②                      ③                      ④                      ⑤

① Model	② Tubing OD	③ Tubing ID	④ Material length	⑤ Standard color
NUE95A: Ether Base, Shore A95±2	1/8: $\Phi$ 1/8"	5/64: $\Phi$ 5/64"	100: 100 ft/coil 250: 250 ft/coil 500: 500 ft/coil	BU: Blue BK: Black GE: Orange C: Clear WH: White CB: Clear Blue R: Red Y: Yellow GA: Gray GN: Green BR: Brown CR: Clear Red CG: Clear Green CY: Clear Yellow CE: Clear Orange
	5/32: $\Phi$ 5/32"	3/32: $\Phi$ 3/32"		
	1/4: $\Phi$ 1/4"	5/32: $\Phi$ 5/32"		
	5/16: $\Phi$ 5/16"	1/5: $\Phi$ 1/5"		
	3/8: $\Phi$ 3/8"	1/4: $\Phi$ 1/4"		
	1/2: $\Phi$ 1/2"	1/3: $\Phi$ 1/3"		

**US98A 060 040 100M BU**

①                      ②                      ③                      ④                      ⑤

① Model	② Tubing OD	③ Tubing ID	④ Material length	⑤ Standard color
US98A: Ester Base, Shore A98±2	032: $\Phi$ 3.2mm	020: $\Phi$ 2.0mm	100M: 100 m/coil 200M: 200 m/coil	BU: Blue BK: Black GE: Orange C: Clear WH: White CB: Clear Blue R: Red Y: Yellow GA: Gray GN: Green BR: Brown CR: Clear Red CG: Clear Green CY: Clear Yellow CE: Clear Orange
	040: $\Phi$ 4.0mm	025: $\Phi$ 2.5mm		
	060: $\Phi$ 6.0mm	040: $\Phi$ 4.0mm		
	080: $\Phi$ 8.0mm	050: $\Phi$ 5.0mm	100M: 100 m/coil	
	100: $\Phi$ 10.0mm	065: $\Phi$ 6.5mm		
	120: $\Phi$ 12.0mm	080: $\Phi$ 8.0mm		
	160: $\Phi$ 16.0mm	0110: $\Phi$ 11.0mm		
UE95A: Ether Base, Shore A95±2	032: $\Phi$ 3.2mm	020: $\Phi$ 2.0mm	20M: 20 m/coil 100M: 100 m/coil 200M: 200 m/coil	
	040: $\Phi$ 4.0mm	025: $\Phi$ 2.5mm		
	060: $\Phi$ 6.0mm	040: $\Phi$ 4.0mm		
	080: $\Phi$ 8.0mm	050: $\Phi$ 5.0mm	20M: 20 m/coil 100M: 100 m/coil	
	100: $\Phi$ 10.0mm	065: $\Phi$ 6.5mm		
	120: $\Phi$ 12.0mm	080: $\Phi$ 8.0mm		

## NUE95A, US98A, UE95A Series

### Product feature

1. Plastic polyurethane material conforms to the ROHS environment protection requirement.
2. High elasticity: small bend radius enables PU tube to pass through the tight space.
3. Anti-knot: better anti-knot effect than other plastic tube.
4. Excellent flexibility: it can bear repeated expansion.
5. Anti-abrasion: long working life and suitable for the environment in which it is easy to be worn.
6. Low permeability of gas: relieve the problems of leakage and pollution.
7. Good anti-solubility: no solvent leaks, therefore it will not pollute the environment.
8. Low compression: maintain excellent physical character.
9. Wide resistance: it has certain resistance to chemicals, water, fuel, oil and bacterium.

### Specification(Standard pressure type)

Type [Note1]	Tubing OD (inch)	Tubing ID (inch)	Wall Thickness (inch)	Package Length (ft)	Working Pressure at 73°F (psi)	Burst pressure at 73°F (psi)	Bend radius (mm)	Weight per 100ft (lb)	Temperature (°F)
NUE95A1/8X5/64-□□	1/8"	5/64"	3/128"	100 250 500	145	363	8	0.4	-40~158
NUE95A5/32X3/32-□□	5/32"	3/32"	1/32"		145	363	8	0.66	
NUE95A1/4X5/32-□□	1/4"	5/32"	3/64"		145	363	12	1.59	
NUE95A5/16X1/5-□□	5/16"	1/5"	9/160"		145	363	17	2.4	
NUE95A3/8X1/4-□□	3/8"	1/4"	1/16"		145	363	20	3.26	
NUE95A1/2X1/3-□□	1/2"	1/3"	1/12"		145	363	30	5.82	

[Note1] The first square of "□□" in the type column is for ordering code "unit" and the second is for "color".

Type [Note1]	Tubing OD (mm)	Tubing ID (mm)	Wall Thickness (mm)	Package Length (m)	Working Pressure at 23°C (MPa)	Burst pressure at 23°C (MPa)	Bend radius (mm)	Weight per 100M (kg)	Temp. (°C)
US98A032020□□	3.2	2.0	0.60	100/200	1.0	3.0	10	0.76	-20~70
US98A040025□□	4.0	2.5	0.75	100/200	1.0	3.0	10	0.94	
US98A060040□□	6.0	4.0	1.00	100/200	1.0	3.0	15	1.93	
US98A080050□□	8.0	5.0	1.50	100	1.0	3.0	20	3.66	
US98A100065□□	10.0	6.5	1.75	100	1.0	3.0	25	5.44	
US98A120080□□	12.0	8.0	2.00	100	1.0	3.0	35	7.56	
US98A160110□□	16.0	11.0	2.50	100	1.0	3.0	80	10.03	

UE95A032020□□	3.2	2.0	0.60	20/100/200	1.0	2.5	8	0.76	-40~70
UE95A040025□□	4.0	2.5	0.75	20/100/200	1.0	2.5	8	0.94	
UE95A060040□□	6.0	4.0	1.00	20/100/200	1.0	2.5	12	1.91	
UE95A080050□□	8.0	5.0	1.50	20/100	1.0	2.5	17	3.58	
UE95A100065□□	10.0	6.5	1.75	20/100	1.0	2.5	20	5.32	
UE95A120080□□	12.0	8.0	2.00	20/100	1.0	2.5	30	7.27	

[Note1] The first square of "□□" in the type column is for ordering code "unit" and the second is for "color".

## UCS Series



### Ordering code

**UCS 080 050 BU 090M A 1**

① ② ③ ④ ⑤ ⑥ ⑦

#### ① Model

UCS: Ester Base

#### ② Tubing OD

060:  $\Phi$ 6.0mm  
080:  $\Phi$ 8.0mm  
100:  $\Phi$ 10.0mm  
120:  $\Phi$ 12.0mm

#### ③ Tubing ID

040:  $\Phi$ 4.0mm  
050:  $\Phi$ 5.0mm  
065:  $\Phi$ 6.5mm  
080:  $\Phi$ 8.0mm

#### ④ Standard color

BU: Blue  
BK: Black  
GE: Orange  
C: Clear  
WH: White  
CB: Clear Blue  
R: Red  
Y: Yellow  
GA: Gray  
GN: Green  
BR: Brown  
CR: Clear Red  
CG: Clear Green  
CY: Clear Yellow  
CE: Clear Orange

#### ⑤ Material length

030M: 3m  
060M: 6m  
090M: 9m  
120M: 12m  
150M: 15m

#### ⑥ Coupling type

A: one end is 30cm and the other end is 10cm



B: Both of the tubes of the couplings are 10cm



C: Both of the tubes of the couplings are 0cm



#### ⑦ Coupling form

- 1: Without coupling
- 2: With female-male coupling
- 3: With male-male coupling

### Product feature

1. Plastic polyurethane material conforms to the ROHS environment protection requirement.
2. High elasticity: small bend radius enables PU tube to pass through the tight space.
3. Anti-knot: better anti-knot effect than other plastic tube.
4. Excellent flexibility: it can bear repeated expansion.
5. Anti-abrasion: long working life and suitable for the environment in which it is easy to be worn.
6. Low permeability of gas: relieve the problems of leakage and pollution.
7. Good anti-solubility: no solvent leaks, therefore it will not pollute the environment.
8. Low compression: maintain excellent physical character.
9. Wide resistance: it has certain resistance to chemicals, water, fuel, oil and bacterium.

### Pipe end coupling

Male quick coupling PP40 $\Phi$ 12 $\times$ $\Phi$ 8	Female quick coupling Sp40 $\Phi$ 12 $\times$ $\Phi$ 8	Male quick coupling PP30 $\Phi$ 10 $\times$ $\Phi$ 6.5	Female quick coupling SP30 $\Phi$ 10 $\times$ $\Phi$ 6.5	Male quick coupling PP20 $\Phi$ 8 $\times$ $\Phi$ 5	Female quick coupling SP20 $\Phi$ 8 $\times$ $\Phi$ 5	Male quick coupling PP10 $\Phi$ 6 $\times$ $\Phi$ 4	Female quick coupling SP10 $\Phi$ 6 $\times$ $\Phi$ 4
PP40/SP40-PU tubing (12 $\times$ 8) quick coupling use		PP30/SP30-PU tubing (10 $\times$ 6.5)quick coupling use		PP20/SP20-PU tubing (8 $\times$ 5)quick coupling use		PP10/SP10-PU tubing (6 $\times$ 4)quick coupling use	

## UCS Series

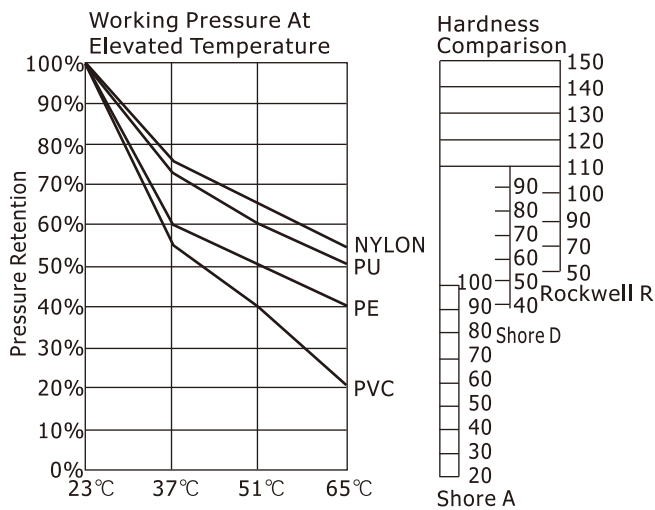
### Specification (Standard pressure type)

Type [Note1]	Tubing OD (mm)	Tubing ID (mm)	Working Pressure at 23°C(MPa)	Burst pressure at 23°C(MPa)	Bend radius(mm)	Length(m) [Note2]	Temp. (°C)
UCS060040□030□□	6.0	4.0	1.0	3.0	38	3	-20~70
UCS060040□060□□	6.0	4.0	1.0	3.0	38	6	
UCS060040□090□□	6.0	4.0	1.0	3.0	38	9	
UCS060040□120□□	6.0	4.0	1.0	3.0	38	12	
UCS060040□150□□	6.0	4.0	1.0	3.0	38	15	
UCS080050□060□□	8.0	5.0	1.0	3.0	38	6	
UCS080050□090□□	8.0	5.0	1.0	3.0	38	9	
UCS080050□120□□	8.0	5.0	1.0	3.0	38	12	
UCS080050□150□□	8.0	5.0	1.0	3.0	38	15	
UCS100065□060□□	10.0	6.5	1.0	3.0	50	6	
UCS100065□090□□	10.0	6.5	1.0	3.0	50	9	
UCS100065□120□□	10.0	6.5	1.0	3.0	50	12	
UCS100065□150□□	10.0	6.5	1.0	3.0	50	15	
UCS120080□060□□	12.0	8.0	1.0	3.0	60	6	
UCS120080□090□□	12.0	8.0	1.0	3.0	60	9	
UCS120080□120□□	12.0	8.0	1.0	3.0	60	12	
UCS120080□150□□	12.0	8.0	1.0	3.0	60	15	

[Note1] "□" in the type column is for "color", and "□□" is for "coupling type" and "coupling mode".

[Note2] Material length: length of operating status=(0.8~0.9)xMaterial length.

### Technical chart



## PA12、PA6 Series



### Ordering code

**PA12 060 040 100M BU**

① ② ③ ④ ⑤

① Model	② Tubing OD	③ Tubing ID	④ Material length	⑤ Standard color
PA6: Nylon 6 PA12: Nylon 12	040: Φ4.0mm 060: Φ6.0mm 080: Φ8.0mm 100: Φ10.0mm 120: Φ12.0mm	025: Φ2.5mm 040: Φ4.0mm 060: Φ6.0mm 075: Φ7.5mm 090: Φ9.0mm	200M: 200 m/coil(4X2.5) 100M: 100 m/coil(Others)	BU : Blue BK : Black GE : Orange N : True color WH : White GN : Green R : Red Y : Yellow

### Product feature

1. PA12、PA6 Nylon tube has excellence capability to be used high temperature conditions widely.
2. Many kinds of colors to be choosed.
3. Steady size, Little osmotic rate.
4. Be used widely for it's aging resistant, good anti-oil,and high temperature resistant capability.

### Specification

Type [Note1]	Tubing OD (mm)	Tubing ID (mm)	Wall Thickness (mm)	Package Length(m)	Working Pressure at 23℃(MPa) [Note2]	Burst pressure at 23℃(MPa)	Bend radius (mm)	Weight per 100M(kg)	Temp. (℃)
PA6040025□□	4.0	2.5	0.75	200	3.5	11.0	30	0.90	-10~70
PA6060040□□	6.0	4.0	1.00	100	3.0	10.0	45	1.80	
PA6080060□□	8.0	6.0	1.00	100	2.0	7.0	65	2.50	
PA6100075□□	10.0	7.5	1.25	100	2.0	7.0	75	3.90	
PA6120090□□	12.0	9.0	1.50	100	2.0	7.0	100	5.70	
PA12040025□□	4.0	2.5	0.75	200	2.5	7.5	25	0.80	-40~70
PA12060040□□	6.0	4.0	1.00	100	2.0	7.0	35	1.60	
PA12080060□□	8.0	6.0	1.00	100	1.5	5.0	55	2.30	
PA12100075□□	10.0	7.5	1.25	100	1.5	5.0	75	3.50	
PA12120090□□	12.0	9.0	1.50	100	1.5	5.0	75	5.10	

[Note1] The first square of "□□" in the type column is for ordering code "unit" and the second is for "color".

[Note2] Working pressure:3 to 1 safety factor.

### Relationship of operation pressure and temperature

Temperature	PA6 the percentage of work pressure reached at different temperatures					PA12 the percentage of work pressure reached at different temperatures				
	20℃	40℃	60℃	80℃	100℃	20℃	30℃	50℃	60℃	80℃
Percentage	100%	74%	57%	47%	40%	100%	83%	75%	64%	47%

## UN54D Series



### Ordering code

**UN54D 120 080 100M Y**



① Model	② Tubing OD	③ Tubing ID	④ Material length	⑤ Standard color
UN54D: Flame resistant tube54D±3	060: Φ6.0mm 080: Φ8.0mm 100: Φ10.0mm 120: Φ12.0mm	040: Φ4.0mm 050: Φ5.0mm 065: Φ6.5mm 080: Φ8.0mm	100M: 100 m/coil	BU: Blue BK: Black GN: Green WH: White R: Red Y: Yellow

### Product feature

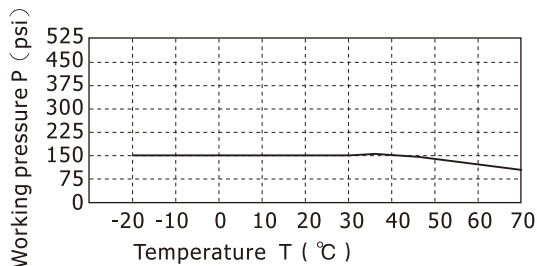
1. Monolayer tube with flame resistant.
2. Excel in elasticity: can pass compactness space with lesser bend radius.
3. Excellent water-resistant and flexibility.
4. Super doughy wearable and higher intensity of stretch.

### Specification

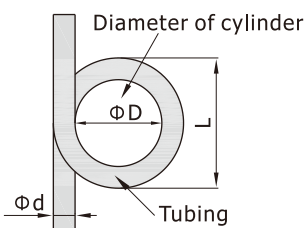
Type [Note1]	Tubing OD (mm)	Tubing ID (mm)	Wall Thickness (mm)	Package Length(m)	Working Pressure at 23℃ (MPa)	Burst pressure at 23℃	Bend radius (mm)	Weight per 100M(kg)	Temp. (℃)
UN54D□060040□□	6.0	4.0	1.00	100	1.0	4.0	12	1.93	-20~70
UN54D□080050□□	8.0	5.0	1.50	100	1.0	4.0	18	3.66	
UN54D□100065□□	10.0	6.5	1.75	100	1.0	4.0	20	5.44	
UN54D□120080□□	12.0	8.0	2.00	100	1.0	4.0	20	7.56	

[Note1] "□□" in the type column is for "color"

### Relationship of operation pressure and temperature



### Mini bend radius



The least bend radius(JIS method)  
 JIS method(Base on JIS B8381 standard)  
 When the tube circle the cylinder tightly and the distortion rate is 25%, the cylinder radius is the least bend radius.  
 Testing condition: 20℃, 65%RH  
 $N = \{1 - (L - D) / 2d\} \times 100$   
 N=Distortion rate(%), less than 25% of standard value.  
 d=Tube diameter(mm)  
 L=Measure value(mm)  
 D=Diameter of cylinder(mm)