

TONGFENG CONDUIT

FLEXIBLE CONDUIT PRODUCT CATALOG



**81 METICULOUS MANUFACTURING STEPS — EVERY
STEP REFINED**

TENSILE & TORSION RESISTANT · DURABLE · PRECISION PROTECTION



PVC-SHEATHED INTERLOCK CONDUIT · ORIGINAL PRODUCT PHOTO

PRECISION FLEXIBLE PROTECTION SYSTEMS MANUFACTURER

TongFengflex manufactures precision instrumentation tubing by helically coiling profiled stainless-steel strip. Our SquareLok, Fully InterLock, sheathed metal conduit and ultra-fine fiber protection tube solutions serve optical communications, medical instruments, industrial automation, robotics, sensing and precision measurement applications.

CORE CAPABILITIES

- MICRO PRECISION
- DEGREASING & POLISHING
- REPEATED FLEXING
- PRECISION DEBURRING
- CRUSH & TENSILE RESISTANCE
- CUSTOM MATERIAL OPTIONS

SQUARELOK FLEXIBLE CONDUIT



CONSTRUCTION

SquareLok tubing is formed from a continuous stainless-steel strip. One profile leg locks over the adjacent profile, providing high flexibility and a small bend radius for tight spaces and continuous flexing.

Applications: robotics, automation equipment, precision optics, medical endoscopes, sensor cables and data wiring.

STANDARD SPECIFICATIONS

TYPE	INCH	I.D. (mm)	O.D. (mm)	O.D. + SHEATH (mm)	PACKING (m)
P040070S2D1	—	4.0	6.0	7.0	100
P046080S2D1	—	4.6	6.6	8.0	100
P050080S2D1	—	5.0	7.0	8.0	100
P006095S2D1	—	6.0	8.0	9.2	100
P062940S2D1	1/4	6.4	8.4	9.4	100
P070100S2D1	—	7.0	9.0	10.2	100
P080110S2D1	—	8.0	10.2	11.2	50
P010140S2D1	3/8	10.0	13.0	14.2	50
P125177S2D1	1/2	12.7	16.0	17.7	50
P161213S2D1	—	16.1	19.8	21.3	50
P208267S2D1	3/4	20.8	24.3	26.7	40
P260330S2D1	1	26.0	30.0	33.0	30
P340422S2D1	1-1/4	34.0	39.0	42.2	30
P390478S2D1	1-1/2	39.0	44.0	47.8	20
P510594S2D1	2	51.0	56.0	59.4	10

FULLY INTERLOCK FLEXIBLE CONDUIT



FULL INTERLOCK · HIGHER MECHANICAL STRENGTH

In Fully InterLock tubing, the strip edges are completely interlocked. This construction provides increased crush protection and higher axial strength for heavy-duty and long-distance cable protection.

Typical applications: heavy machinery, railways, marine equipment, chemical plants, security systems and outdoor installations.

STANDARD SPECIFICATIONS

TYPE	INCH	I.D. (mm)	O.D. (mm)	O.D. + SHEATH (mm)	PACKING (m)
S2S1	—	4.0	6.0	7.0	100
S2S1	—	4.6	6.6	8.0	100
S2S1	—	5.0	7.0	8.0	100
S056090C2S1	—	5.4	7.8	9.0	100
S060092C2S1	—	6.0	8.0	9.2	100
S063100C2S1	1/4	6.3	8.4	10.0	100
S070900C2S1	—	7.0	9.0	10.0	100
S080100C2S1	—	8.0	10.2	11.2	100
S2S1	3/8	9.5	12.0	15.0	50
S2S1	—	10.0	12.5	15.0	50
S2S1	1/2	12.7	15.5	17.7	50
S2S1	—	16.1	18.5	20.5	50
S2S1	3/4	20.8	24.3	26.7	40
S2S1	—	22.0	25.7	28.0	40
S2S1	1	26.0	30.0	33.0	30
S2S1	1-1/4	34.0	39.0	42.2	30
S2S1	1-1/2	39.0	44.0	47.8	20
S2S1	2	51.0	56.0	59.4	10

SHEATHED FLEXIBLE METAL CONDUIT



COLORED SHEATHED AND UNSHEATHED CONDUITS · ORIGINAL PRODUCT PHOTO

The inner conduit is available in stainless steel or galvanized steel, with PVC, PE, PU or low-smoke zero-halogen sheathing options. The finished conduit provides insulation, water resistance, tensile strength, oil resistance, corrosion resistance and a clean appearance. Construction, color and fittings can be customized for the installation environment.

WORKING TEMPERATURE	-40°C ~ +160°C
IP RATING	IP54 / IP68 (depending on fitting selection)
SHEATH MATERIAL	PVC / PE / PU / LSZH options available
STANDARD COLORS	Black, gray, green, yellow and custom colors

APPLICATIONS

- RAIL & TRANSPORTATION
- COMMUNICATIONS & BUILDINGS
- HVAC, POWER & CHEMICAL
- OUTDOOR CABLE PROTECTION

ULTRA-FINE FIBER PROTECTION TUBES



MINIMUM INNER DIAMETER: 1.8 mm

High-precision, smooth-bore flexible tubing with excellent crush and tensile resistance protects delicate fibers used in medical endoscopes, laser systems, fiber-optic sensors, precision measurement and communication equipment.

ULTRA-FINE SERIES SPECIFICATIONS

TYPE	I.D. (mm)	O.D. (mm)	O.D. + SHEATH (mm)
TF1829D	1.8	2.9	4.0
TF2234D	2.2	3.4	4.4
TF2638D	2.6	3.8	4.8
TF3050D	3.0	5.0	6.0
TF040070S1F1	4.0	6.0	7.0
TF050076S1F2	5.0	7.0	7.6
TF060092S1F3	6.0	8.0	9.2
TF080110S1F2	8.0	10.0	11.0
TF100130S1F2	10.0	12.0	13.0

NINE PRODUCT ADVANTAGES

● FLEXIBLE PITCH

● HIGH FLEXIBILITY

● TENSILE & CRUSH RESISTANT

● SMOOTH MOVEMENT

● CORROSION RESISTANT

● EASY WIRE PULLING

● LIGHTWEIGHT

● RODENT RESISTANT

● WATER-RESISTANT SHEATH

FLEXIBLE PROTECTION ACROSS INDUSTRIES

INDUSTRY	TYPICAL APPLICATIONS
OPTICAL COMMUNICATIONS	Armored fiber cable, base stations, laser cutting, fiber lighting and temperature sensing
MEDICAL EQUIPMENT	Endoscope sheaths, laser systems and medical instrument cabling
INDUSTRIAL AUTOMATION	Robotics, CNC machines, automated lines and precision optical scales
INFRASTRUCTURE	Remote meters, door sensors, alarm systems and surveillance equipment
TRANSPORTATION	Railways, locomotives, marine, aviation and vehicle cabling
ENERGY & CHEMICAL	Power generation, chemical plants, power distribution and heat protection

INSTALLATION GUIDE

- Plan the routing, avoid sharp bends and select the correct conduit length
- Maintain a natural bend and prevent twisting, kinking or bending at the fitting root
- Secure both ends with correctly matched threaded or locking fittings
- Pull cable or fiber slowly to prevent damage during insertion
- Select suitable materials and protection for heat, welding sparks or corrosive environments

QUALITY & STANDARDS

● EN / DIN / JIS

International industrial standards

● UL94-V0

Flame-retardant option

● RoHS

Environmental compliance

● IP54 / IP68

Protection level by fitting selection



PRECISION CRAFTSMANSHIP FOR RELIABLE PROTECTION

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