

## CYG-DS(406) HEAT-SHRINKABLE BUTT SPLICE CONNECTORS

### Material:

Outer layer: radiation cross-linked polyolefin

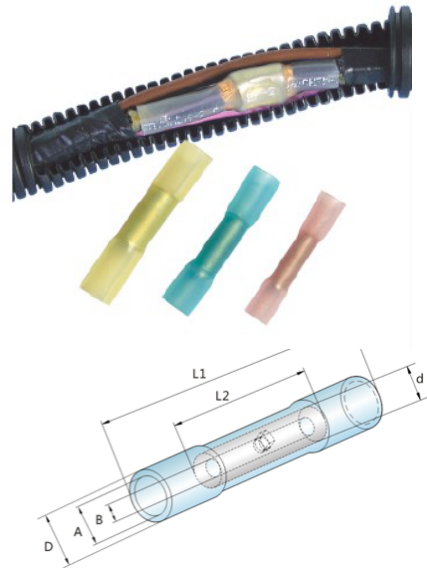
Inner layer: hot melt adhesive

Splice part: tinned copper tube

Shrink ratio: 3:1

### Features:

- ◆ Excellent sealing performance, anti-corrosive by withstanding the liquid and moisture
- ◆ Excellent abrasion and applicable in mechanical and hydraulic environments
- ◆ Completely insulate and protect the electrical connections.
- ◆ Fully shrink temperature:  $\geq 130^{\circ}\text{C}$
- ◆ Operation temperature range:  $-55^{\circ}\text{C}\sim 125^{\circ}\text{C}$ .



### Application:

CYG-DS(406) is used for waterproof protection of wire harness connectors, electronic machines and components, also for the protection fields that require high abrasion resistance and mechanical strength.

### Specifications for outer layer:

Test Items		Test Condition	Specification
Unaged	Tensile strength	Room temp.	$\geq 16\text{MPa}$
	Elongation at break		$\geq 200\%$
Aged	Tensile strength	$150^{\circ}\text{C}$ , 7 days	$\geq 11.5\text{MPa}$
	Elongation at break		$\geq 100\%$
Dielectric strength		Room temp.	AC 2500V, 60s, no breakdown
Copper corrosion		$150^{\circ}\text{C}$ , 7 days	No corrosion
Copper stability		$150^{\circ}\text{C}$ , 7 days	No sign of degradation
Cold bend		$-40^{\circ}\text{C}/4\text{h}$	No cracking, no breaking
Cutting modulus (2% strain)		-	250MPa
Volume resistance		-	$\geq 1.0 \times 10^{14}\Omega \cdot \text{cm}$
Heat shock		$200^{\circ}\text{C} * 4\text{h}$	No cracking

### Size

### CYG-DS(406) (Shrink ratio: 3:1)

Size	Wire Range		Dimension of Copper Tube (mm)			Heat shrink tube(mm)			Color	Package
	AWG	mm <sup>2</sup>	OD	B	L2	OD	A	L1		
Φ4.7	22-18	0.5-1.0	3.3	1.7	15	5.9	4.7	36	Red	500
Φ5.7	16-14	1.5-2.5	4.0	2.4	15	7.1	5.7	36	Blue	500
Φ6.7	12-10	4.0-6.0	5.5	3.5	15	8.1	6.7	42	Yellow	500