

Highlights

- Wire perfectly centered
- Insulation material savings
- Optimal insulation flow
- Various materials available



We Specialize in...

- Wire Drawing Dies
- Bunching, Stranding & Compacting Dies
- Split Dies
- Tubing Dies
- Shaped Dies

Extrusion Tooling

- Die Reconditioning Tools
- Engineering Services
- Customer Support

Superior tool concentricity allows wire insulators to meet the demands of today's super thin-wall constructions.

Extrusion tools are commonly used to apply an insulating layer around a solid or stranded wire. The extrusion tip, also called extrusion wire guide, guides a single or group of wires into and through an extrusion die. The extrusion die controls the shape and size of the insulating material around the wire.

State-of-the-art technology and tight concentricity (0.005 mm / .0002") of **Esteves Group** extrusion tools give the insulator the ability to maintain uniform insulation thickness minimizing material usage and scrap.

Super-hard material inserts in the wire guides, primarily diamond and carbide, ensure long tool life even at high extrusion process speeds. Esteves Group extrusion tools are manufactured with a mirror polish and no sharp edges to ensure optimal insulation material flow and easy threading.

Virtually any extrusion tooling shape for any type of crosshead is available from Esteves Group.

More throughput, less material usage, less scrap, and higher quality all add up to more profit for the insulated wire and cable manufacturer.



Extrusion Tips and Dies

Key FeaturesBenefits• Very high tip concentricity• Insulation material savings• Very high tip roundness• Even insulation thickness all around• Inserts located close to tip's end• Wire perfectly centered within insulation material• Various materials available• Optimal insulation flow

• High surface finish

Long lasting tools

Extrusion tip (extrusion wire guide) specifications	Product name	Diamond insert tip	Tungsten carbide insert tip	Solid tungsten carbide tip	Solid steel tip
	Size range ¹⁾	0.25 - 4.00 mm [.00981575"]	0.7 - 5.0 mm [.0276197"]	1.20 - 8.0 mm [.047315'']	1.0 -125 mm [.039 - 4.921"]
	Insert material	Diamond (PCD, SSCD, ND)	Tungsten Carbide (TC)	Solid Tungsten	Solid
	Body material	Ste	eel Carbide (TC)		Steel
	Distance to product tip ²⁾	≥ 0.6 mm [≥ .0236"]	0 mm [0'']		
	Concentricity	± 0.005 mm [.000197'']			
Extrusion die specifications	Product name	Solid tungsten carbide die	Tungsten carbide insert die	Ceramic insert die	Solid steel die
	Size range ¹⁾	0.8 - 8.0 mm [.031315"]	0.8 - 8.0 mm [.031315"]	≥ 2.0 mm [≥ .0787'']	8.0 -35 mm [.315 - 1.38'']
	Insert material	Solid Tungsten Carbide (TC)	Tungsten Carbide (TC)	Ceramic	Solid Steel
	Body material		Steel	Steel	
	Concentricity	± 0.005 mm [.000197"]			

¹ Other sizes are available on request

² Insert materials are located as close as possible to the tip's end to ensure perfect guiding of the wire.

