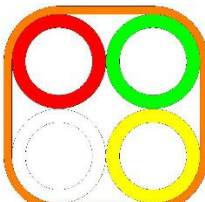


4-Ways 14/10mm HDPE Tube Bundle

Test	Characteristic	Test Method		Acceptance Criteria
Raw Materials				
1	Bundles is manufactured with 100% virgin HDPE			
	2	Melt flow index	ASTM 1238 190°C @ 2.16KG Load	≤ 0.40 g/10min
	3	Density	ASTM D792	0.940~0.958 g/cm³
	4	Environmental stress crack resist (F50)	ISO 4599	Min. 96h
Physical and Mechanical Properties – Inner Micro duct 14/10mm				
1	Visual appearance	Visual inspection	Ribbed inside & smooth outside surface, free from blisters, shrink hole, flaking, scratches & roughness.	
2	Outer diameter	FCST	14.0mm ± 0.1mm	
3	Wall thickness	FCST	2.00mm ± 0.10mm	
4	Inner diameter clearance	Blowing steel ball	A 8.5mm steel ball can be blown freely through the duct.	
5	Ovality	FCST	≤ 5%	
6	Pressurization	5 minutes @25bar each duct	No damage and leakage	
7	Kink	IEC 60794-1-2 Method E10	≤ 140mm	
8	Tensile strength	Rate of extension: 100mm/min	≥ 1350N	
9	Crush	Sample length: 250mm Load: 1400N Duration of Max. load: 1 min Recovery time: 1 hour	No residual deformation > 15% of inner and outer diameter, shall pass inner diameter clearance test.	
10	Impact	IEC 60794-1-2 Method E4 1.5J Impact, recovery time 1 hour	No residual deformation > 15% of inner and outer diameter, shall pass inner diameter clearance test.	
11	Heat reversion	110°C ~ 23°C, 1 hour	≤ 3%	
12	Min. bend radius	168mm	No residual deformation > 15% of inner and outer diameter, shall pass inner diameter clearance test.	
13	Co-efficient of Friction	750mm Diameter, 450°loop, 5kg mass	≤ 0.1	
14	Color and printing	Visual inspection	As per customer specification	

Test	Characteristic	Test Method	Acceptance Criteria
Physical and Mechanical Properties – tube bundles			
1	Visual appearance	Visual inspection, Outer sheath: Black	Ribbed inside & smooth outside surface, free from blisters, shrink hole, flaking, scratches & roughness.
2	Outer diameter	FCST	30.4mm*30.4mm ($\pm 0.5\text{mm}$)
3	Sheath Wall thickness	FCST	1.20mm $\pm$ 0.20mm
4	Pressurization	5 minutes @25bar each duct	No damage and leakage
5	Tensile strength	Rate of extension: 100mm/min	$\geq 4000\text{N}$
6	Crush	Sample length: 250mm Load: 2000N Duration of Max. load: 1 min Recovery time: 1 hour	No residual deformation > 15% of inner and outer diameter, shall pass inner diameter clearance test.
7	Impact	IEC 60794-1-2 Method E4 5.0J Impact, recovery time 1 hour	No residual deformation > 15% of inner and outer diameter, shall pass inner diameter clearance test.
8	Min. bend radius	600mm	No residual deformation > 15% of inner and outer diameter, shall pass inner diameter clearance test.
9	Color and printing	Visual inspection	Orange or as per customer specification

Completed packages of the HDPE micro duct on drum can be stored outdoor max. 6 months upon the date of production.

Storage temperature: -40°C $\sim$ $+70^{\circ}\text{C}$

Installation temperature: -30°C $\sim$ $+50^{\circ}\text{C}$

Operating temperature: -40°C $\sim$ $+70^{\circ}\text{C}$

Packing Information

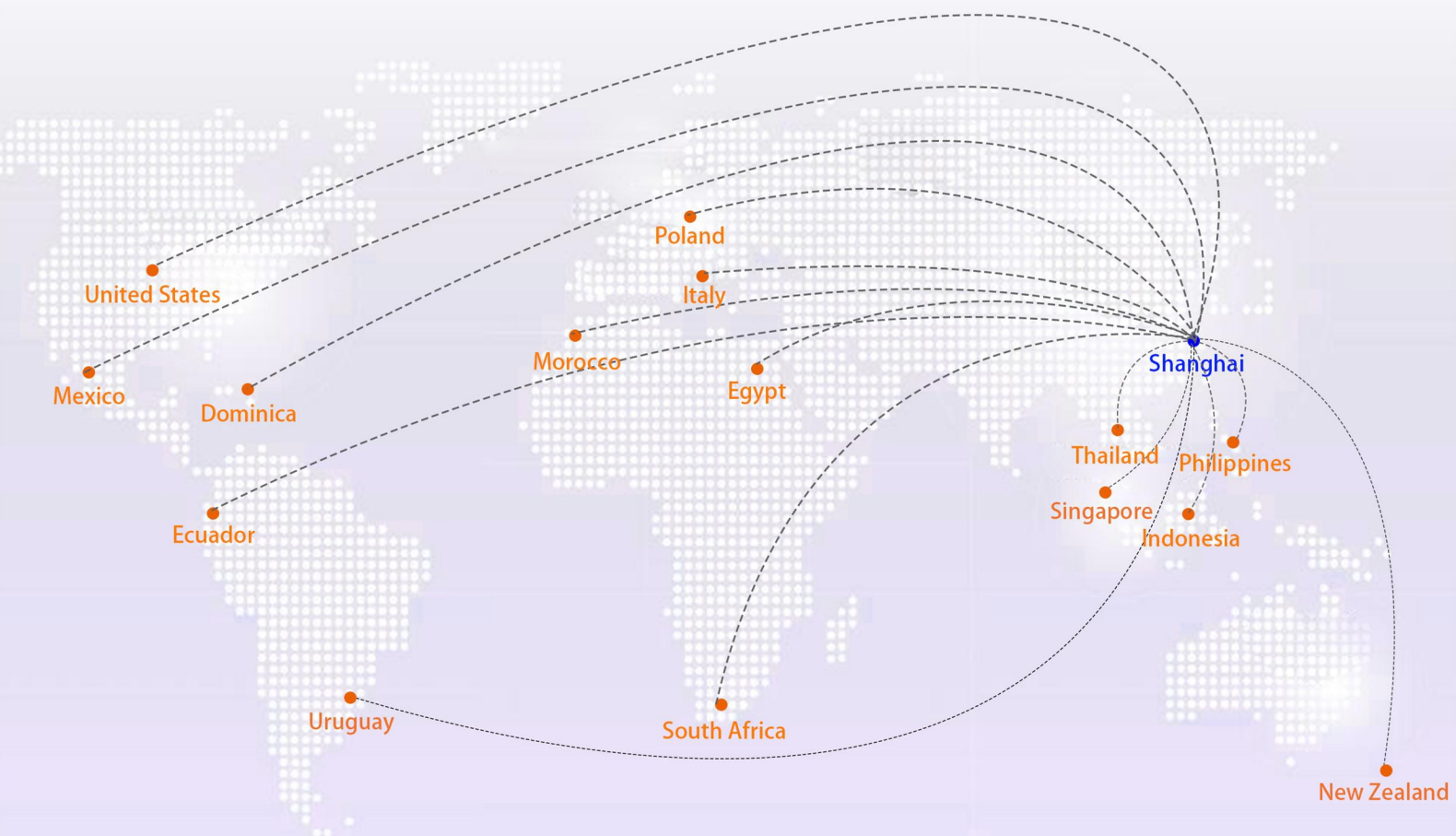


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Fiber Cable Solution Technology Co.,Ltd.



Overseas Agency

 www.fcst.com.cn



Fiber Cable Solution Technology (FCST Co.,Ltd.) was established in 2003. We specialized in Fiber optic patch cord manufacturing in 2006. We transited to R&D fiber plastic products such as fiber optic closures and terminal boxes in 2009, and began to be involved in fiber blowing. In 2011, we set up our own micro duct factory in Shanghai. From 2014 till now, FCST has perfected total blowing solution and has become the leader of this field in China. We set up an engineer team specialized in R&D fiber cable aerial installation accessories from 2018 and we have finished more than 25 types of accessories, especially for FTTH drop cable aerial installation.

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