LightTC Lightweight Tri-Clamp Flexible Connector

Uses the TC installation method with compatible ferrules and clamps. Modified polycarbonate fittings are injection molded in one piece.



Features

- Integrated O-ring seals
- The catalog describes the polycarbonate fitting as one eighth the weight of its stainless steel counterpart

LightTC D159 CL200 PC/PU10

Fitting outside diameter D	159 mm
Ferrule outside diameter C	183 mm for D159 in the catalog table
Length CL	200 mm
Fitting material	Modified polycarbonate (PC)

Catalog sizes

Listed D/C pairs (mm)	76/91; 89/106; 102/119; 114/130; 133/145; 140/155; 152/168; 159/183; 168/183; 180/200; 204/217; 219/233; 254/268; 273/286; 305/319
Listed CL (mm)	100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000

PU10

Material	Polyurethane
Typical application	Most common materials
Color	Clear
Thickness (mm)	1.0
Abrasion loss (mg)	39.0
Surface resistance (Ω)	$>10^{12}$
Temperature resistance (°C)	–20 to 110
Air permeable	No
Tensile strength (MPa)	40
Elongation at break (%)	600
Manufacturing process	Heat welded

PU05

Material	Polyurethane
Typical application	Weighing and dosing
Color	Clear
Thickness (mm)	0.5
Abrasion loss (mg)	39.0
Surface resistance (Ω)	$>10^{12}$
Temperature resistance (°C)	–20 to 110
Air permeable	No
Tensile strength (MPa)	10
Elongation at break (%)	300
Manufacturing process	Heat welded

PUHT

Material	Heat-resistant polyurethane
Typical application	High temperature
Color	Clear
Thickness (mm)	1.0
Abrasion loss (mg)	35.0
Surface resistance (Ω)	$>10^{12}$
Temperature resistance (°C)	–20 to 150
Air permeable	No
Tensile strength (MPa)	40
Elongation at break (%)	600
Manufacturing process	Heat welded

PUAS

Material	Antistatic polyurethane
Typical application	Flammable or explosive powders (catalog material application)
Color	Clear
Thickness (mm)	1.0
Abrasion loss (mg)	39.0
Surface resistance (Ω)	<10■
Temperature resistance (°C)	–20 to 110
Air permeable	No
Tensile strength (MPa)	15
Elongation at break (%)	600
Manufacturing process	Heat welded

PURF

Material	Fiber-reinforced polyurethane
Typical application	Positive or negative pressure
Color	White
Thickness (mm)	0.8
Abrasion loss (mg)	39.0
Surface resistance (Ω)	$>10^{12}$
Temperature resistance (°C)	–20 to 110
Air permeable	No
Tensile strength (MPa)	300
Elongation at break (%)	600
Manufacturing process	Heat welded

PUFL

Material	Polyurethane with helical steel wire
Typical application	Large oscillations and stroke-docking mechanisms
Color	Translucent white
Thickness (mm)	0.6
Abrasion loss (mg)	35.0
Surface resistance (Ω)	$>10^{12}$
Temperature resistance (°C)	–20 to 110
Air permeable	No
Tensile strength (MPa)	40
Elongation at break (%)	600
Manufacturing process	Heat welded

Options and configuration

Custom CL lengths are available with a catalog minimum of 100 mm.