The TNDLDE range of line bushings are designed as components for use in all Ex de enclosures to pass connection between the Ex d and Ex e compartment in combination Ex de enclosures. The TNDLDE is designed to accommodate coaxial cables such as RG179 (50Ω) or can be manufactured to order for custom or hybrid bushing requirements.

Technical Data Construction

Centre conductor	Copper 2.25mm diameter
Dielectric	REX (Polyethylene cross-linked) 7.25mm diameter
Outer conductor	Copper, Silver plated, braid, 95%, 8.15mm diameter
Jacket	RADOX (LSFH), RAL 9005 – bk 10.3mm ±0.1
Print	HUBER+SUHNER GX 07272 50W (PA no.)

Electrical Data

Impedance	50W ±2
Max. Operating frequency	2 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	>1 x 108MWm
Min. screening effectiveness	>41 dB (up to 2 GHz)
Max. operating voltage	5 kVrms (at sea level)
Test voltage	10 kVrms (50Hz/1 min)

Mechanical Data

Weight	16.1 kg/100 m	
Min. bending radius	Static	55 mm
	Dynamic	154 mm

Environmental Data

Temperature range	-40ºC to 110º

Ex d Coax bushings, 50W, -40°C- +110°C										
Type	Number of coax	Coax type	Thread size	Coax length in mm Ex e/Ex d						
TNDLDE1x50	1	RG213U, 50Ω	M24	1000/1000						
TNDLDE2x50	2	RG213U, 50Ω	M24	1000/1000						
Ex d Multi fibre / Coax / line bushings, -20°C- +76°C										
Type	Number of fibers	Fiber type	Thread size	Conductor length in mm Ex e/Ex d	Connec-tor	Number of Coax	Coax type	Number of cores	Core size	Rated current [A] @Tamb 60°C
TNDLDF 2x62.5/125+ 10x0.75+2x50	2	62.5/125	M42	750/750	ST	2	RG213U, 50W	10	0.75	9