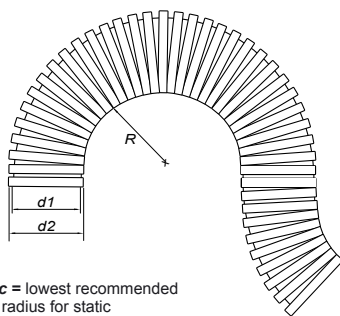


The main characteristic of this medium to heavy walled polyamide 12 conduit / tubing is the high fatigue strength while undergoing reverse bending stress. LHT is ideal for continuous dynamic use at very low temperatures. With its smoke, flame and toxicity certifications and excellent UV and weathering resistance, LHT is particularly suitable for outside dynamic use on people movers, railway vehicles (roof, bogie & underframe), public transit, robotic applications and solar tracking systems & arrays.

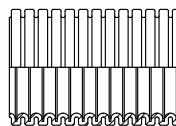


- High-grade, specially formulated polyamide 12
- Halogens and cadmium free
- Excellent weather and UV resistance
- Enhanced flexibility and fatigue strength
- Excellent mechanical strength (compression/impact) also at low temperatures and dry air conditions
- Self-extinguishing with very low smoke development
- Temperature range: -50°C(-58°F) to 95°C(203°F)
- Short-term to 150°C(302°F)

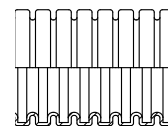


Rs static = lowest recommended bending radius for static (fixed) installation

Rd dynamic = lowest recommended bending radius for dynamic (flexible) installation



Fine Profile F
Tight bend radius

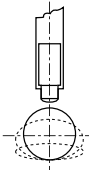
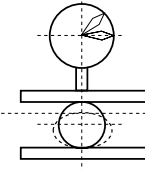
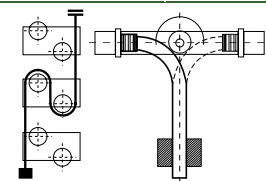
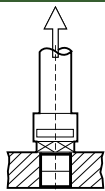


Coarse Profile C
High pull-out strength

Specifications are subject to change without notice



Order No.	Conduit Size		Trade Size		d1		d2		Rs Static		Rd Dynamic		PU		Weight	
	NW		mm	in	mm	in	mm	in	mm	in	mm	in	m	ft	kg./50m	lb./100ft
LHT-FK07.50	7	10	1/4	6.0	0.24	10.0	0.39	15.0	0.59	40.0	1.57	50	164.0	1.25	1.68	
LHT-FK10.50	10	12	5/16	9.2	0.36	13.0	0.51	20.0	0.79	50.0	1.97	50	164.0	1.55	2.08	
LHT-FK12.50	12	16	3/8	11.8	0.46	15.8	0.62	25.0	0.98	70.0	2.76	50	164.0	2.10	2.82	
LHT-FK17.50	17	20	1/2	16.0	0.63	21.2	0.83	30.0	1.18	80.0	3.15	50	164.0	3.50	4.70	
LHT-CK17.50	17	20	1/2	15.2	0.60	21.2	0.83	35.0	1.38	85.0	3.35	50	164.0	3.50	0.00	
LHT-CK23.50	23	25	3/4	22.0	0.87	28.5	1.12	40.0	1.57	110.0	4.33	50	164.0	6.00	8.06	
LHT-CK29.50	29	32	1	27.7	1.09	34.5	1.36	50.0	1.97	130.0	5.12	50	164.0	7.50	10.08	
LHT-CK36.30	36	40	1-1/4	35.8	1.41	42.5	1.67	60.0	2.36	180.0	7.09	30	98.4	9.50	12.77	
LHT-CK48.30	48	50	1-1/2	46.8	1.84	54.5	2.15	70.0	2.76	220.0	8.66	30	98.4	12.50	16.80	
LHT-CK56.30	56	68	2	56.0	2.20	67.2	2.65	130.0	5.12	280.0	11.02	30	98.4	18.00	24.19	
LHT-CK70.10	70	80	2-1/2-3	66.5	2.62	80.0	3.15	170.0	6.69	360.0	14.17	10	32.8	26.00	34.94	
LHT-CK95.10	95	106	3-1/2-4	91.3	3.59	106.0	4.17	250.0	9.84	470.0	18.50	10	32.8	38.25	51.41	

MECHANICAL CHARACTERISTICS	STANDARD REFERENCE	METHOD OF TESTING		VALUES			UNIT
Impact Strength	IEC EN 61386	<p>The Conduit is impacted with a spherical object weighing 2 kg and having a 300 mm radius. The height of the drop is equal to 1.2 meters.</p> 	> 2/ [3] (-45°C)			J / Class	
			> 6/ [4] (-15°C)			J / Class	
			> 20/ [5] (23°C)			J / Class	
Compression Strength	20% / 2 min.	<p>The Conduit is compressed with a 100 mm steel plate for a period of time, reducing the conduit diameter by 25%.</p> 	Compression Force	Under Load Deformation	Deformation Residual	N / Class	
<i>Tested with conduit:</i>	Internal Method		≥ 150 N	2.4 mm	3%	N 50x50 mm	
LHT-FK12.50			≥ 260 N	5.8 mm	2%	N 50x50 mm	
LHT-CK29.50			≥ 130 N	9.6 mm	2%	N 50x50 mm	
LHT-CK48.30							
Fatigue Strength	23°C / 50% r.h.	<p>The Conduit is continuously subjected to horizontal and vertical movements. The full movements are counted.</p> 	≥ 2,000,000.00			Cycles at 23°C	
	Internal Method						
Pull-Out Strength	23°C / 50% r.h.	<p>The Conduit with the respective connector is subjected to increasing pull-out strength until test uncouples.</p> 	Pulling Force	Residual Elongation		N / Class	
<i>Tested with Grip Lock Fitting:</i>	Internal Method		≥ 190 N	4%			
K8-M-S-12P11			≥ 570 N	10%			
K8-M-S-29P29			≥ 1200 N	10%			
K8-M-S-48P48							
THERMAL CHARACTERISTICS		VALUES				UNIT	
Operating Temperature		-50°C to +95°C				Celsius	
Short Period of time		110°C		20,000 hours			
		140°C		168 hours			
FIRE CHARACTERISTICS	STANDARD REFERENCE	VALUES			UNIT		
Oxygen Index	EN ISO 4589-1	≥ 28			%		
Halogens Contents	DIN 53474	FREE					
Flame Class	UL94	V2					
Self-Extinguishing	IEC EN 61386	YES					
Glowing Flammability Index	EN 60695-2-10	850°C			Celsius		
WEATHERING RESISTANCE	STANDARD REFERENCE	VALUES					
Weathering UV/ Rain Cycle		EXCELLENT					
UV Aging	ISO 4892 -2	≥ 2,000 hours					
CHEMICAL PROPERTIES		VALUES					
Resistance against fuel, mineral based oils, grease, alkalis & weak acids		GOOD					
ENVIRONMENTAL PROPERTIES	STANDARD REFERENCE	VALUES					
ROHS Compliant	EU Directive 2002 / 95 / EC	YES					
Recyclable		YES					
UV Resistant		YES					