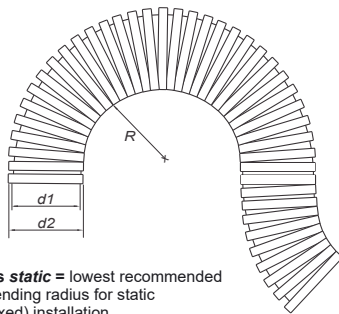


TMF conduit / tubing is designed for use in the food industry. This highly specialized material is suitable for applications on machines and productive structures built for the formulation of food and beverages. TMF has an enhanced resistance to acids, bases and watery compounds and has the added advantage of acting like a high quality thermal insulator. TMF's outer material has been designed to cover and protect installed fittings from all possible food contaminants.

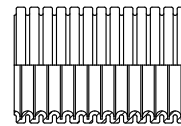


- Good weather and UV resistance
- Good mechanical strength and flexibility
- Temperature range: 0°C(32°F) to 100°C(212°F)
- Surface Hardness: 65 Shore A
- Enhanced resistance to ozone
- Flame retardant

*Substances permitted for the conduit cleaning: water, water with chlorine, bleach, ammonia, basic substances.*



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

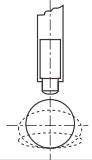
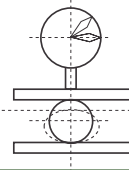
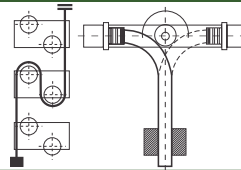
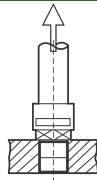


Fine Profile F  
Tight bend radius

Specifications are subject to change without notice

TMF

Order No.	Conduit Size	Trade Size		d1		d2		Rs Static		PU	
	NW	mm	in	mm	in	mm	in	mm	in	m	ft
☞ TMF-F12.50	12	16	3/8	11.8	0.46	18.8	0.74	30.0	1.18	50	164.0
☞ TMF-F17.50	17	20	1/2	16.0	0.63	24.2	0.95	40.0	1.57	50	164.0
☞ TMF-F23.50	23	25	3/4	22.4	0.88	31.5	1.24	45.0	1.77	50	164.0
☞ TMF-F29.50	29	32	1	28.8	1.13	37.5	1.48	55.0	2.17	50	164.0
☞ TMF-F36.30	36	40	1-1/4	36.5	1.44	44.0	1.73	60.0	2.36	30	98.0
☞ TMF-F48.30	48	50	1-1/2	48.5	1.91	57.5	2.26	70.0	2.76	30	98.0

MECHANICAL CHARACTERISTICS	STANDARD REFERENCE	METHOD OF TESTING	VALUES	UNIT			
Impact Strength	IEC EN 61386	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.		> 1 / [2] (-45°C)	J / Class		
				> 2 / [3] (-15°C)	J / Class		
				> 6 / [4] (23°C)	J / Class		
Tensile Strength at Break	ASTM D412-C		9.2	Mpa			
Elongation at Break			720	%			
Compression Strength	20% / 2 min.	The Conduit is compressed with a 100 mm steel plate for a period of time, reducing the conduit diameter by 25%.		Compression Force	Under Load Deformation	Deformation Residual	N / Class
<i>Tested with conduit:</i>							
TMF-F12.50	Internal Method			≥140 N	2.4 mm	4%	N 50x50 mm
TMF-F29.50				≥180 N	5.8 mm	2%	N 50x50 mm
TMF-F48.30		≥120 N	9.6 mm	2%	N 50x50 mm		
Fatigue Strength	23°C / 50% r.h.	The Conduit is continuously subjected to horizontal and vertical movements. The full movements are counted.		≥250,000.00		Cycles at 23°C	
	Internal Method						
Pull-Out Strength	23°C / 50% r.h.	The Conduit with the respective connector is subjected to increasing pull-out strength until test uncouples.		Pulling Force	Residual Elongation	N / Class	
<i>Tested with Grip Lock Fitting:</i>							
K8-M-S-12P11				Internal Method	≥210 N		2%
K8-M-S-29P29					≥530 N		2%
K8-M-S-48P48	≥800 N	2%					
SHEATHING PHYSICAL CHARACTERISTICS		STANDARD REFERENCE	VALUES	UNIT			
Hardness		ASTM D2240	65	shore A			
Density		ASTM D792	0.98	gr/cm³			
M.F.I (190°C / 5Kg)		ASTM D1238	10	gr/10'			
THERMAL CHARACTERISTICS		VALUES		UNIT			
Operating Temperature		0°C to + 100°C		Celsius			
Short Period of time	110°C	20,000 hours					
	150°C	168 hours					
FIRE CHARACTERISTICS		STANDARD REFERENCE	VALUES	UNIT			
Oxygen Index		EN ISO 4589-1	≥25	%			
Halogens Contents		DIN 53474	FREE				
Flame Class		UL94	HB				
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			GOOD				
UV Aging		ISO 4892 -2	≥2,000 hours				
CHEMICAL PROPERTIES		VALUES					
Resistance acids, bases and water compounds		ENHANCED					
ENVIRONMENTAL PROPERTIES		STANDARD REFERENCE	VALUES				
ROHS Compliant		EU Directive 2002 / 95 / EC	YES				
Recyclable			YES				
UV Resistant			YES				