

## FLATFLEX HOSE 20 bar

HOSES › Flattenable tubes

### High quality extruded rubber flat tube

The standard colors are yellow ochre for diameters up to 5" and black for larger sizes. 6" and 8" also available in green. Other colors available upon request.

#### Applications:

Designed for heavy duty applications and agricultural discharge, water transfer, spreading of slurry and manure, irrigation, water and hydrocarbon bypass operations, Compressed air applications up to Ø 3" Pumping of high pressure liquids, discharging of loose powders (excluding cement).

#### Construction:

Made from 100% high tenacity synthetic yarn circularly woven, fully protected and secured by a tough, highly resistant blend of synthetic nitrile rubber and PVC, extruded through the weft and forming a single homogeneous construction without the use of glues or adhesives.

### Coating properties:

**A.** Maximum tensile strength of coating: guaranteed minimum value of 1,500 psi (10,500 kPa).

**B.** Final elongation: minimum 400%.

**C.** Accelerated Aging Test: The tensile strength and ultimate elongation of the vulcanized rubber compound were tested with oxygen at a pressure of 300 psi +/- 10 psi (2100 kPa +/- 70 kPa) and a temperature of 70 degrees Celsius +/- 1 degree (158 °F +/- 18 °F) for a period of 96 hours, after which the rubber properties are at least 60% of the original values.

#### Abrasion resistance:

will extend the life of your application in extreme conditions, where abrasion is the primary concern. Indicative abrasion resistance >2000 cycles.

#### Serving temperature range:

From -30°C to 80°C. Special versions for higher and lower temperatures available on request.

#### Ozone resistance:

No visible signs of cracking appear on the coating or covering when tested in accordance with ASTM D518 Procedure B, 100pphm/40°C.

#### Chemical resistance:

Exposure to sea water and contamination by most chemicals, hydrocarbons, oils and greases will have no effect on the short or long term performance of the hose. A chemical resistance chart is available and we will provide specific chemical resistance data when requested by the purchaser for specific applications.

**Lengths:** Standard 100 m. Special lengths up to 200 m.

#### Attacks:

for transferring liquids: Camlock, Bauer, Perrot, Victaulic, Storz, etc.

for compressed air: Express, Camlock, Universal air hose fittings, etc.



[Mastertubi.it/q?271](http://Mastertubi.it/q?271)



Color:

Physical Properties:

Part Number	Nominal Inner Diameter		Wall Thickness		Working Pressure - Liquid		Working Pressure - Air		Burst Pressure		Tensile Strength		Nominal Weight		Bend Radius at WP	
	mm	inch	mm	inch	bar	psi	bar	psi	bar	psi	kg	lb	kg/m	lb/ft	m	ft
F550680A	20	¾	2.0	0.08	33	480	25	360	100	1,450	1,500	3,300	0.20	0.13	0.65	2.13
F552110A	26	1	2.0	0.08	38	550	29	415	115	1,660	1,875	4,150	0.25	0.17	0.90	2.95
F552302A	38	1 ½	2.8	0.11	21	305	16	225	63	910	3,000	6,600	0.45	0.30	1.10	3.61
F552663A	45	1 ¾	3.0	0.12	21	305	16	225	63	910	3,500	7,700	0.55	0.37	1.28	4.20
F552120A	52	2	3.0	0.12	21	305	16	225	63	910	3,750	8,250	0.64	0.43	1.30	4.27
F559287A	65	2 ½	3.0	0.12	21	300	13	185	52	750	6,000	13,200	0.70	0.47	1.35	4.43
F550760A	76	3	3.0	0.12	18	260	11	160	45	650	8,500	18,750	0.90	0.61	1.45	4.76
F552278A	102	4	3.1	0.12	21	300	-	-	52	750	13,000	28,650	1.25	0.84	1.80	5.91
F550208A	105	4	3.1	0.12	21	300	-	-	52	750	13,000	28,650	1.25	0.84	1.80	5.91
F550209A	115	4 ½	3.1	0.12	17	245	-	-	42	605	13,000	28,650	1.49	1.00	1.80	5.91
F551021A	127	5	3.2	0.13	17	245	-	-	42	605	15,500	34,150	1.70	1.14	1.90	6.23
F550206A	129	5	3.2	0.13	17	245	-	-	42	605	15,500	34,150	1.70	1.14	1.90	6.23
F559247A	152	6	4.0	0.16	20	290	-	-	50	725	23,400	51,600	2.50	1.68	2.00	6.56
F552365A	154	6	4.0	0.16	20	290	-	-	50	725	23,400	51,600	2.50	1.68	2.00	6.56
F559250A	178	7	4.0	0.16	16	230	-	-	40	580	30,000	66,150	2.80	1.88	2.20	7.22
F552360A	203	8	4.1	0.16	14	200	-	-	35	500	35,000	77,150	3.30	2.22	2.50	8.20
F551833A	254	10	3.9	0.15	14	200	-	-	35	500	50,000	110,250	3.95	2.70	3.00	9.84
F551950A	256	10	3.9	0.15	14	200	-	-	33	480	50,000	110,250	3.95	2.70	3.00	9.84
F552352A	305	12	4.1	0.16	11	155	-	-	26	375	46,000	101,400	4.80	3.23	3.30	10.83

The actual diameter of these hoses may differ slightly from the nominal diameter specified in this chart to make sure that they can be properly assembled with the couplings. For diameter tolerance questions please contact your distributor or directly to TIPSA.

All the hoses up to 3" (76mm) are marked with dual Working Pressure rating for both liquid transfer and compressed air. In the case of compressed air, a 1:4 safety factor has been considered over the Burst Pressure.