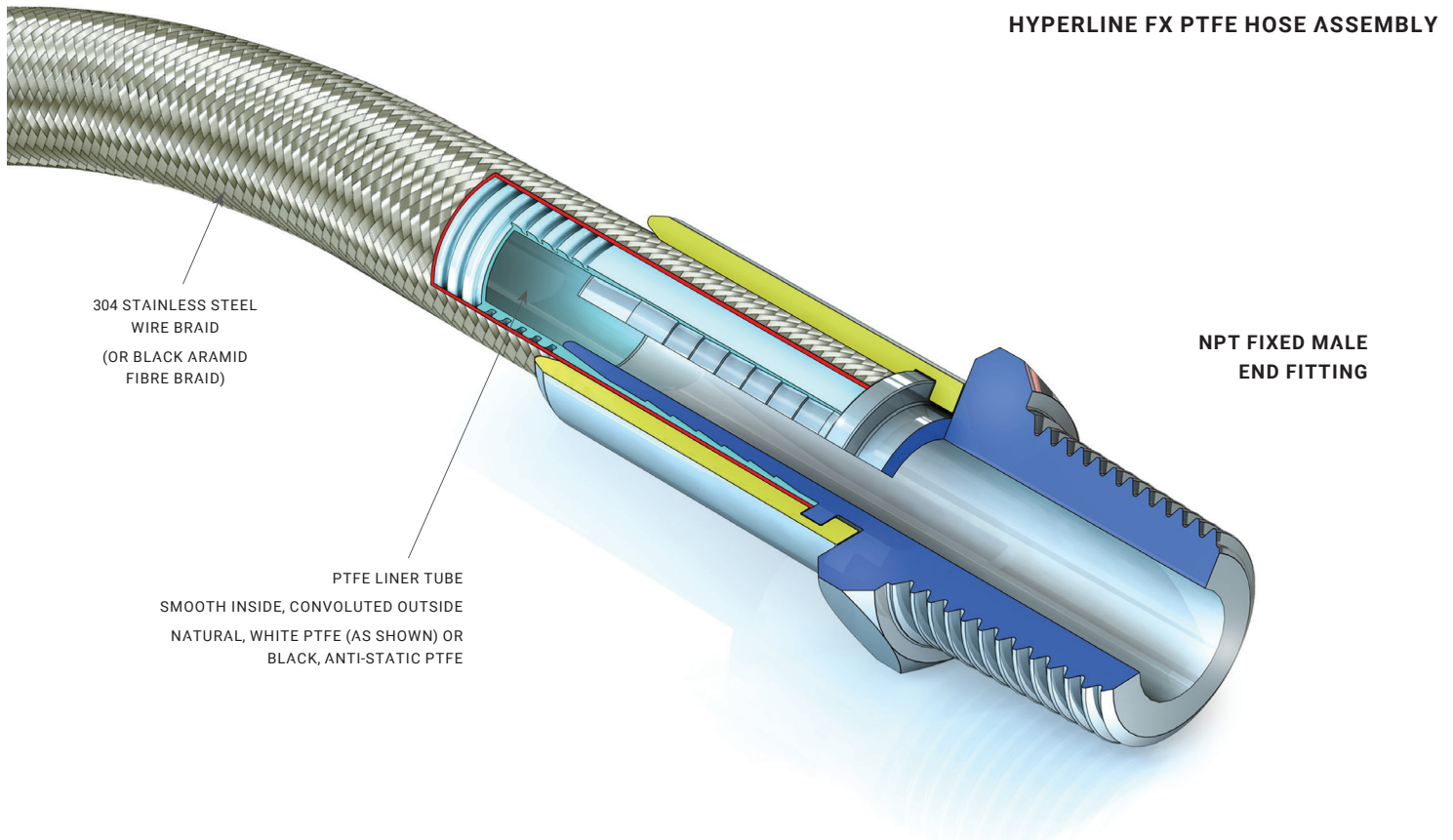


Hyperline FX

PTFE Hose for automotive and general purpose applications

Smooth bore, but with much improved flexibility due to the externally convoluted PTFE liner design



HYPERLINE FX PTFE HOSE ASSEMBLY

304 STAINLESS STEEL
WIRE BRAID
(OR BLACK ARAMID
FIBRE BRAID)

PTFE LINER TUBE
SMOOTH INSIDE, CONVOLUTED OUTSIDE
NATURAL, WHITE PTFE (AS SHOWN) OR
BLACK, ANTI-STATIC PTFE

**NPT FIXED MALE
END FITTING**

HYPERLINE FX HOSE SPECIFICATIONS

HOSE BORE SIZE RANGE -
1/4" (6MM) UP TO 1" (25MM)

HOSE LENGTHS -
ALL SIZES UP TO 60 FEET (18 METERS)
CUT LENGTHS AND PREFORMED LENGTHS AVAILABLE

TEMPERATURE LIMITS -
-100°F (-73°C) UP TO +500°F (+260°C)-DEPENDING ON PRESSURE

WORKING PRESSURE RATINGS -
Stainless Steel Braided (SS grade)
FROM 1280 PSI (88 BAR) FOR 1/4" TO 580 PSI (40 BAR) FOR 1"
Aramid Fibre Braided (AM grade)
FROM 900 PSI (62 BAR) FOR 1/4" TO 400 PSI (28 BAR) FOR 1"

VACUUM LIMITATIONS -
USABLE AT VACUUM TO -0.9BAR FOR ALL SIZES OF SS
BRAIDED HOSE UP TO 300°F (+150°C)

VACUUM LIMITATIONS -
USABLE AT VACUUM TO -0.9BAR FOR ALL SIZES OF SS BRAID-
ED HOSE UP TO 300°F (+150°C)

END FITTING OPTIONS BSPT AND NPT MALE AND FEMALE,
BSP AND NPSM CONE AND FLAT SEAT FEMALE UNION FIT-
TINGS, JIC THREADED FITTINGS, STANDPIPE FITTINGS AND
MANY MORE

STANDARD BRAID OPTIONS STAINLESS STEEL WIRE OR
BLACK ARAMID FIBRE BRAID

ALTERNATIVE DESIGN OPTIONS (TO SPECIAL ORDER) -
PVC, NYLON II, SARLINK, HYTREL, PEROXIDE CURED SILICONE
AND OTHER PLASTIC COVERS, CLEAR OR COLORED, WITH
PRINTING

Specifications listed below are for non-antistatic grades. For anti-static (AS) grades the specifications are all the same, except that "AS" is added to the grade reference, and the part number reads "-110-" in place of "-100-".

Nominal Hose Size		*Actual Hose Bore Size		Hose Grade	Outside Diameter of Tube or Braid		Minimum Bend Radius		Maximum Working Pressure (MWP)		Weight per Unit Length	Hose Part Number
in	mm	mm	in	**	in	mm	in	mm	Bar	Psi	Lbs/Ft	
1/4	6.0	6.8	0.270	TO	0.354	9.0	1 1/2	38	4	60	0.027	92-100-04
				SS	0.378	9.6	3/4	19	88	1,280	0.062	92-100-04-01-02
				AM	0.378	9.6	1 1/2	38	62	900	0.038	92-100-04-01-55-01
5/16	8.0	7.9	0.312	TO	0.394	10.0	1 1/2	38	4	60	0.037	92-100-05
				SS	0.420	10.6	3/4	19	84	1,220	0.084	92-100-05-01-02
				AM	0.445	11.3	1 1/2	38	59	850	0.050	92-100-05-01-55-01
3/8	10.0	10.0	0.394	TO	0.492	12.5	2	50	4	60	0.047	92-100-06
				SS	0.534	13.5	1	25	80	1,160	0.107	92-100-06-01-02
				AM	0.534	13.5	2	50	56	810	0.067	92-100-06-01-55-01
1/2	15.0	13.6	0.536	TO	0.640	16.2	3	76	4	58	0.074	92-100-08
				SS	0.690	17.5	1 1/2	38	60	870	0.151	92-100-08-01-02
				AM	0.690	17.5	3	76	42	600	0.094	92-100-08-01-55-01
5/8	16.0	16.7	0.658	TO	0.787	20.0	4	100	3	44	0.108	92-100-10
				SS	0.831	21.1	2	50	50	730	0.226	92-100-10-01-02
				AM	0.831	21.1	4	100	35	510	0.137	92-100-10-01-55-01
3/4	20.0	19.8	0.780	TO	0.913	23.2	5	126	3	44	0.120	92-100-12
				SS	0.953	24.2	2 1/2	63	42	610	0.257	92-100-12-01-02
				AM	0.953	24.2	5	126	29	430	0.158	92-100-12-01-55-01
1	25.0	26.0	1.023	TO	1.193	30.3	6	150	2	29	0.180	92-100-16
				SS	1.250	31.7	3	75	40	580	0.362	92-100-16-01-02
				AM	1.250	31.7	6	150	28	400	0.237	92-100-16-01-55-01
1 1/4	32	32.2	1.268	TO	1.470	37.3	5 1/2	140	3	43	0.30	92-100-20
		32.2	1.268	SS	1.513	38.4	4	100	45	650	0.57	92-100-20-01-02
1 1/2	40	38.5	1.516	TO	1.773	45.0	7	180	2	29	0.44	92-100-24
		38.5	1.516	SS	1.923	48.8	5 1/2	140	40	580	0.74	93-100-24-01-02
2	50	51.1	2.012	TO	2.33	59.2	12	300	2	29	0.84	92-100-32
		51.1	2.012	SS	2.40	6.96	8	200	30	430	1.27	94-100-32-01-02

***Hydraulic Bore Size** - The actual bore sizes of Hyperline FX hose are slightly larger than the nominal size, to allow the insertion and assembly of standard Hydraulic Fittings, using ferrules supplied by Aflex Hose. ** TO grade = Tube only

PROPERTIES

TEMPERATURES AND PRESSURES

HYPERLINE FX, SS GRADES - THE MWP LISTED ABOVE SHOULD BE REDUCED FOR EACH 1.8°F ABOVE 320°F (1% FOR EACH 1°C ABOVE 160°C) UP TO A MAXIMUM OF 500°F (260°C).

HYPERLINE FX, AM GRADES - THE MWP LISTED ABOVE SHOULD BE REDUCED FOR EACH 1.8°F ABOVE 266°F (1% FOR EACH 1°C ABOVE 130°C) UP TO A MAXIMUM OF 356°F (180°C).

MAXIMUM WORKING PRESSURES (MWP) LISTED ARE CALCULATED ON THE BASIS OF A 3:1 SAFETY FACTOR RELATIVE TO THE BURST PRESSURE, SO BURST PRESSURE = 3 x MWP. IF MWP IS REQUIRED BASED ON A 4:1 SAFETY FACTOR (e.g. EN 16643 REQUIREMENT), MULTIPLY THE LISTED VALUE BY 0.75.

LOOSE HOSE LENGTHS

LOOSE HOSE IS SUPPLIED IN RANDOM LENGTHS UP TO A MAXIMUM OF 60 FEET (18 METERS) LONG.

ASSEMBLED HOSE LENGTHS

HYPERLINE FX HOSE ASSEMBLIES ARE MADE UP TO THE SPECIFIC LENGTHS REQUIRED. THE HOSE LENGTH IS TAKEN FROM THE SEALING FACE AT ONE END OF THE HOSE TO THE OTHER END. THE LENGTH TOLERANCE IS NORMALLY +2% / -0%. CLOSER TOLERANCES ARE AVAILABLE TO SPECIAL ORDER.

Our Locations:

41 Benton Dr,
East Longmeadow, MA
413-525-3977

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Woburn, MA
781-933-3300

920 Broadway,
East Providence, RI
401-438-0639

