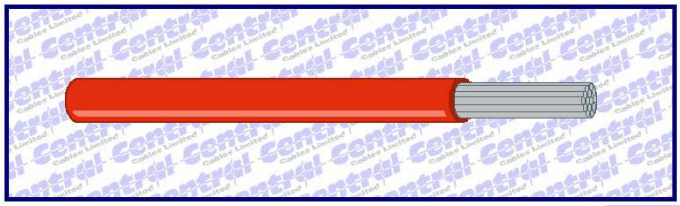
Texiline HF90/HF90D
single core LSZH marine flex



HF90 = single insulated, HF90D = double insulated, both types are suitable for use as an alternative to Radox 125. They are DNV approved from 0,75mm²-185mm² at 90°C for marine and offshore use

LSZH cables ensure increased safety in the case of fire due to the virtual elimination of toxic fumes if burnt. Pronounced advantages when compared to PVC cabling: low fire load, low smoke emission, reduced fire propagation.

Construction

fine stranded plain or tinned copper conductors

cross linked low smoke zero halogen (LSZH) insulation (HF90D version has two layers of insulation bonded together)

smooth surface for easy installation

Technical

conductor stranding:	according to class 5 (VDE 0295 / IEC 60228 / BS EN 60228:2005)
voltage rating:	600V/1000V operating (1,2kV Um)
current rating:	see Texiline chart
temperature range:	-40°C to +125°C operating
standards:	construction to IEC 60092-353 & BS7211
	flame retardant according to IEC 60332-1
	smoke emission according to IEC 61034-2
	halogen acid gas emission according to IEC 60754-1
DNV approvals:	HF90 = no. E-10017, HF90D = no. E-10016
UL approvals:	HF90 0.5-1.5mm² = AWM 3746, HF90 2.5-6.0mm² = AWM 3607
sheath colours:	HF90 = black, brown, blue, green, grey, green/yellow, orange, red, violet, white & yellow
	HF90D = grey as standard, other colours may be available on request

HF90 (single insulated)

Conductor Area (mm²)	Reel/Coil Length (minimum)	Overall Diameter (mm)	Overall Weight (kg/km)	Conductor Area (mm²)	Reel/Coil Length (minimum)	Overall Diameter (mm)	Overall Weight (kg/km)
0.5	200m	1.9	10	4.0	100m	4.0	44
0.75	200m	2.5	13	6.0	100m	4.6	62
1.0	200m	2.7	14	10.0	100m	5.4	106
1.5	150m	3.0	19	16.0	100m	6.9	157
2.5	150m	3.4	30	25.0	50m	9.0	246

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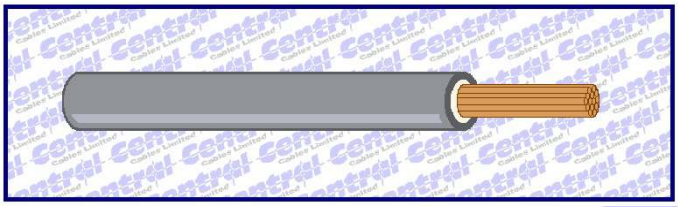

HF90 (single insulated)							
Conductor Area (mm²)	Reel/Coil Length (minimum)	Overall Diameter (mm)	Overall Weight (kg/km)	Conductor Area (mm²)	Reel/Coil Length (minimum)	Overall Diameter (mm)	Overall Weight (kg/km)
35.0	50m	10.3	336	120.0	-	16.8	1096
50.0	50m	11.9	476	150.0	-	19.3	1375
70.0	-	14.3	657	185.0	-	21.7	1678
95.0	-	15.1	873				

HF90D (double insulated)							
Conductor Area (mm²)	Reel/Coil Length (minimum)	Overall Diameter (mm)	Overall Weight (kg/km)	Conductor Area (mm²)	Reel/Coil Length (minimum)	Overall Diameter (mm)	Overall Weight (kg/km)
1.5	150m	4.4	23	185.0	-	21.7	1678
2.5	150m	4.8	34	50.0	50m	13.7	837
4.0	100m	5.6	50	70.0	-	15.8	1080
6.0	100m	5.8	71	95.0	-	17.3	1280
10.0	100m	6.9	123	120.0	-	18.8	1630
16.0	100m	8.0	207	150.0	-	21.6	1440
25.0	50m	10.5	303	185.0	-	24.6	1940
35.0	50m	11.8	412	240.0		29.4	2550
150.0	-	19.3	1375				

LSZH Properties: fairly tough & flexible material resistant to a wide range of oils & chemicals. Guarantees max. 0.5% HCL emissions if burnt. Also known as LSOH & LSHF (low smoke zero halogen/halogen free).

Not to be confused with LSF (low smoke and fume) for which may just mean modified PVC. There is no standard governing the hydrogen chloride (HCL) emissions of LSF so it may still be hazardous if burnt.

AE