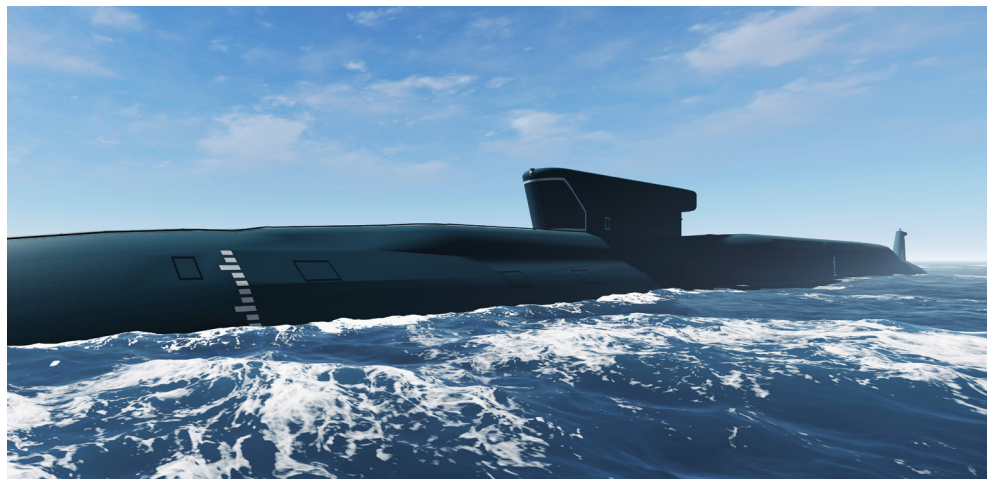


Habia Cable



Seaguard^{DS}

Cables for submarines and surface ships
to Def Stan 61-12

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All data within this publication indicates nominal values in millimetres (mm) unless otherwise stated.
DISCLAIMER: Information is indicative and cannot be considered a binding representation or warranty for products and their use. Valid at the time of publication, it is subject to change without notice.



Halogen free, low smoke generation and flame retardant cables

Habia Cable manufactures and supplies a wide variety of naval and land forces cables, approved to many of the toughest military specifications in the world.

Developed to meet the requirements of Def Stan 61-12 Parts 9, 18 and 25, Habia Cable's Seaguard^{DS} range of single and multicore cables and coaxials provides an impressive balance of rugged performance, and Low Smoke Zero Halogen (LSZH) properties.

Certificate approval

Covering a variety of types and sizes, our approval comprises:

- Def Stan 61-12 Pt 9** = Coaxials: Cables, radio frequency including Limited Fire Hazard (LFH) variants:
- 7c1 and 7c2 = Small, general purpose polyethylene dielectric LFH sheath
- 8d - Medium, close tolerance polyethylene dielectric LFH sheath
- Def Stan 61-12 Pt 18** = Single cores: Equipment wires, Limited Fire Hazard
- Def Stan 61-12 Pt 25** = Multicores: Wires and cables, electrical, Limited Fire Hazard, up to conductor size 10mm² Cross Sectional Area

Performance

Single cores and Multicores are rated for an operating voltage of 600V AC / 800V DC max.

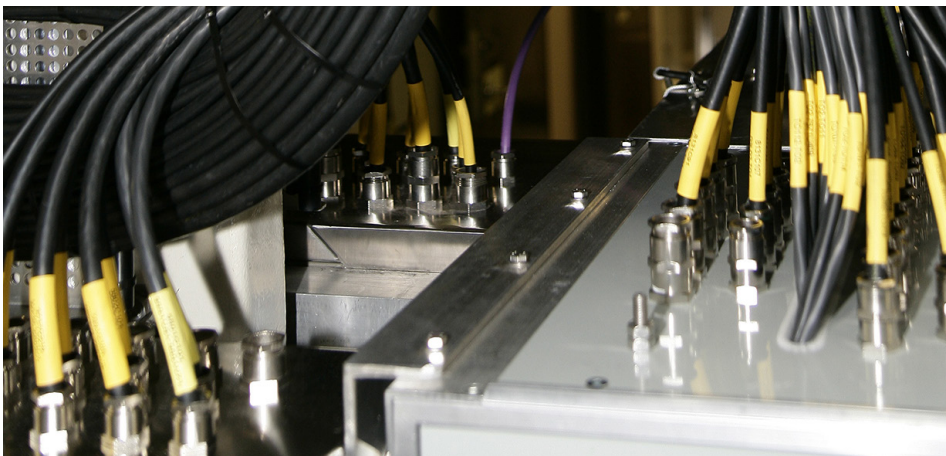
Coaxials have an operating temperature of -30 to +85°C

Single cores have an operating temperature of -50 to +120°C

Multicores have an operating temperature of -30 to +85°C with a conductor temperature of -30 to +105°C

All cables are designed for an extended service life exceeding 40,000 hours.

All of the items are Nato codified and the relevant NSN numbers (excluding Single cores, which can be cross-referenced on request) can be found throughout this document.



Seaguard^{DS} // LFH/URM

HFI 90 L dielectric, HFS 107 XL B sheathed coaxials to Def Stan 61-12 Pt 9
Intended for use primarily as transmission line in high frequency applications

50 Ω

-30°C to +85°C

Description	Construction					Properties				Article Number
LFH/URM (NSN)	Conductor		Dielectric	Shield/s	Sheath/s	Weight	Voltage	Capacitance	Fixed MBR	
	Stranding	CU	HFI 90 L	CU braid	HFS 107 XL B					
		Nom Ø	Nom Ø	Nom Ø	Nom Ø					
LFH/URM 43 (6145-99-891-9850)	Solid	0.90	2.95	3.70	5.00	40	5,200	100	25	6198919850
LFH/URM 67 (6145-99-891-9861)	7 x 0.75	2.25	7.25	8.15	10.30	160	13,000	100	50	6198919861
LFH/URM 76 (6145-99-891-9849)	7 x 0.32	0.96	2.95	3.65	5.00	40	5,200	100	25	6198919849
LFH/URM (NSN)	Conductor		Dielectric	Shield/s	Sheath/s	Weight	Voltage	Capacitance	Fixed MBR	
	Stranding	SPC	HFI 90 L	CU braid	HFS 107 XL B					
		Nom Ø	Nom Ø	Nom Ø	Nom Ø					
LFH/URM 112 (6145-99-891-9863)	7 x 0.75	2.25	7.25	In: 7.95 Out: 8.65	10.80	210	13,000	100	55	6198919863
LFH/URM (NSN)	Conductor		Dielectric	Shield/s	Sheath/s	Weight	Voltage	Capacitance	Fixed MBR	
	Stranding	CU	HFI 90 L	CU braid	HFS 107 XL B					
		Nom Ø	Nom Ø	Nom Ø	Nom Ø					
LFH/URM 115 (6145-99-891-9851)	Solid	0.90	2.95	In: 3.60 Out: 5.30	In: 4.60 Out: 7.20	85	5,200	100	35	6198919851

Continued on next page

Electrical data

Attenuation (dB/100m at 20°C)					
Frequency (MHz)	LFH/URM 43	LFH/URM 67	LFH/URM 76	LFH/URM 112	LFH/URM 115
30	8	4	8	4	7
100	14	7	15	7	13
400	29	15	31	15	27
1,000	47	24	50	24	43
2,500	77	39	81	39	71

Power (Watts at 40°C)					
Frequency (MHz)	LFH/URM 43	LFH/URM 67	LFH/URM 76	LFH/URM 112	LFH/URM 115
30	1,150	3,644	1,004	3,288	1,092
100	630	1,996	550	1,801	598
400	293	998	275	901	299
1,000	185	550	163	413	176
2,500	117	348	103	261	111

Identification

Colours		
Part	Colour	Notes / Printing
Dielectric	Natural	
Outer sheath	Black	Last 7 digits of the NSN - Description - Country of production - Company Code - Year of production

Characteristics & key properties

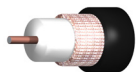
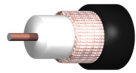


	RoHS 2011/65/EU	REACH EC No. 1907/2006	LVD 2014/35/EU	DSP 61-12 Part 9 approval	Flame retar- dant	Low smoke generation	Halogen free
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Seaguard^{DS} // LFH/URM

HFI 90 L dielectric, HFS 107 XL B sheathed coaxials to Def Stan 61-12 Pt 9
Intended for use primarily as transmission line in high frequency applications

75 Ω

-30°C to +85°C

Description	Construction					Properties				Article Number
LFH/URM (NSN)	Conductor		Dielectric	Shield/s	Sheath/s	Weight	Voltage	Capacitance	Fixed MBR	
	Stranding	CU	HFI 90 L	CU braid	HFS 107 XL B					
		Nom Ø	Nom Ø	Nom Ø	Nom Ø					
LFH/URM 57 (6145-99-891-9866)	Solid	1.15	7.25	8.15	10.30	150	10,500	67	45	6198919866
LFH/URM 60 (6145-99-891-9868)	Solid	1.15	7.25	In: 7.95 Out: 8.65	11.00	185	10,500	67	55	6198919868
LFH/URM 70 (6145-99-891-9852)	7 x 0.19	0.57	3.25	3.95	5.80	60	3,600	67	30	6198919852
LFH/URM 117 (6145-99-891-9854)	7 x 0.20	0.61	3.70	4.40	6.00	60	5,200	67	30	6198919854
LFH/URM (NSN)	Conductor		Dielectric	Shield/s	Sheath/s	Weight	Voltage	Capacitance	Fixed MBR	
	Stranding	CCS	HFI 90 L	CU braid	HFS 107 XL B					
		Nom Ø	Nom Ø	Nom Ø	Nom Ø					
LFH/URM 90 (6145-99-891-9855)	Solid	0.60	3.70	4.40	6.00	60	5,200	67	30	6198919855
LFH/URM (NSN)	Conductor		Dielectric	Shield/s	Sheath/s	Weight	Voltage	Capacitance	Fixed MBR	
	Stranding	CCS	HFI 90 L	CU braid	HFS 107 XL B					
		Nom Ø	Nom Ø	Nom Ø	Nom Ø					
LFH/URM 54 (6145-99-891-9857)	7 x 0.19	0.57	3.25	In: 3.95 Out: 6.10	In: 5.40 Out: 8.30	120	3,600	67	45	6198919857
LFH/URM (NSN)	Conductor		Dielectric	Shield/s	Sheath/s	Weight	Voltage	Capacitance	Fixed MBR	
	Stranding	CCS	HFI 90 L	CU braid	HFS 107 XL B					
		Nom Ø	Nom Ø	Nom Ø	Nom Ø					
LFH/URM 114 (6145-99-891-9856)	Solid	0.57	3.70	In: 4.40 Out: 6.00	In: 5.30 Out: 8.20	115	5,200	67	40	6198919856

Page 2 of 2

Electrical data

Attenuation (dB/100m at 20°C)							
Frequency (MHz)	LFH/URM 57	LFH/URM 60	LFH/URM 70	LFH/URM 117	LFH/URM 90	LFH/URM 54	LFH/URM 114
30	3	3	8	7	6	8	7
100	6	6	14	13	11	14	13
400	12	12	29	27	23	29	27
1,000	21	21	47	43	37	47	43
2,500	35	35	77	71	60	77	71

Power (Watts at 40°C)							
Frequency (MHz)	LFH/URM 57	LFH/URM 60	LFH/URM 70	LFH/URM 117	LFH/URM 90	LFH/URM 54	LFH/URM 114
30	2,324	3,080	1,019	1,161	1,371	984	1,294
100	1,273	1,687	558	636	751	539	709
400	637	844	262	318	376	270	355
1,000	365	382	166	188	219	160	206
2,500	231	242	105	119	139	101	130

Identification

Colours			Notes / Printing
Part	Colour		
Dielectric	Natural		
Outer sheath	Black	Last 7 digits of the NSN - Description - Country of production - Company Code - Year of production	

Characteristics & key properties



	RoHS 2011/65/EU	REACH EC No. 1907/2006	LVD 2014/35/EU	DSP 61-12 Part 9 approval	Flame retar- dant	Low smoke generation	Halogen free
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Seaguard^{DS} // D-D & D-DM

HFI 140 insulated cores to Def Stan 61-12 Pt 18
Intended for use as equipment wires - limited fire hazard

600/1000V AC U₀/U

-50°C to +120°C

Description	Conductor					Finished Wire					Article Number
D-D	Size		Tin Plated Copper (TPC)			HFI 140			Weight	Amps	
			Stranding	DC resistance	Wire	Core	Tolerance				
	AWG	mm²			Ω/km	Max Ø	Nom Ø	Min Ø	Max Ø	Max g/m	
D-D 3001	30	0.05	1 x 0.25	383.5	0.254	0.65	0.55	0.75	0.92	4	430cc3001
D-D 3007		0.06	7 x 0.10	336.0	0.32	0.70	0.60	0.75	1.10		430cc3007
D-D 2807	28	0.09	7 x 0.12	259.0	0.38	0.78	0.65	0.80	1.50	5	430cc2807
D-D 2601	26	0.12	1 x 0.40	145.6	0.404	0.80	0.70	0.85	2.00	7	430cc2601
D-D 2619		0.15	19 x 0.10	141.5	0.53	0.88	0.80	0.95	2.90		430cc2619
D-D 2419	24	0.24	19 x 0.12	95.6	0.62	1.00	0.90	1.05	3.45	10	430cc2419
D-D 2301	23	0.28	1 x 0.60	64.0	0.606	1.00	0.90	1.05	3.95	11	430cc2301
D-D 2219	22	0.40	19 x 0.15	60.0	0.80	1.16	1.05	1.20	4.90	13	430cc2219
D-D 2019	20	0.60	19 x 0.20	33.2	1.04	1.36	1.30	1.50	7.56	18	430cc2019
D-D 1901	19	0.63	1 x 0.90	28.5	0.909	1.30	1.20	1.35	7.90	18	430cc1901
D-D 1819	18	1.00	19 x 0.25	21.1	1.29	1.60	1.55	1.75	10.4	24	430cc1819
D-D 1619	16	1.20	19 x 0.30	14.5	1.53	1.82	1.80	2.00	16.5	30	430cc1619
D-D 1437	14	2.0	37 x 0.25	10.9	1.82	2.25	2.15	2.35	20.7	36	430cc1437
D-D 1237	12	2.6	37 x 0.30	7.60	2.18	2.60	2.50	2.70	27.1	46	430cc1237
D-DM	Size		Tin Plated Copper (TPC)			HFI 140			Weight	Amps	
			Stranding	DC resistance	Wire	Core	Tolerance				
	AWG	mm²			Ω/km	Max Ø	Nom Ø	Min Ø	Max Ø	Max g/m	
D-DM 4	-	4	56 x 0.30	5.09	2.64	3.20	3.15	3.25	40.0	60	430cc0400
D-DM 6	-	6	84 x 0.30	3.39	3.27	4.00	3.95	4.05	62.0	77	430cc0600
D-DM 10	-	10	80 x 0.40	1.95	4.19	5.10	5.05	5.15	101.0	109	430cc1000

Identification

Replace 'cc' in the article number with 2 digits below

00: Black	11: Brown	22: Red	33: Orange	44: Yellow	55: Green	66: Blue	77: Violet	88: Grey	99: White	29: Pink	89: Clear
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Characteristics & key properties

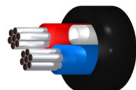
	RoHS 2011/65/EU	REACH EC No. 1907/2006	LVD 2014/35/EU	DSP 61-12 Part 18 approval	Flame retardant	Low smoke generation	Halogen free	Current ratings in free air to IEC 60287
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Seaguard^{DS} // D-TX

HFI 140 insulated, HFS 107 XL B sheathed multicores to Def Stan 61-12 Pt 25
Intended for use on electric power and communications circuits

600/1000V AC U₀/U

40,000 hrs: -30°C to +85°C

Description	Arrangement		Cores		Inner Components		Finished Cable			Article Number	
D-TX (NSN)	No. of cores	Conductor		Insulation		Shield/s	Sheath	Shield/s	Sheath	Weight	
		Size	DSP 61-12 Pt 18		N/A	N/A	N/A	HFS 107 XL B			
			TPC	HFI 140							
		AWG	mm²	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Max Ø	Nom g/m	
D 2419 TX 2 (6145-99-891-9293)	2	24	0.2	0.60	1.00	-	-	-	4.80	23	61989-192-93
D 2019 TX 2 (6145-99-891-9310)		20	0.6	0.96	1.36	-	-	-	5.70	34	61989-193-10
D 1819 TX 2 (6145-99-891-9893)		18	1.0	1.20	1.60	-	-	-	6.30	47	61989-198-93
D 1619 TX 2 (6145-99-892-0037)		16	1.5	1.42	1.82	-	-	-	6.80	58	61989-200-37
D 1237 TX 2 (6145-99-892-0042)		12	2.5	2.10	2.60	-	-	-	8.00	93	61989-200-42
D 2419 TX 3 (6145-99-891-9874)	3	24	0.2	0.60	1.00	-	-	-	5.05	28	61989-198-74
D 2219 TX 3 (6145-99-891-9880)		22	0.4	0.76	1.16	-	-	-	5.40	33	61989-198-80
D 2019 TX 3 (6145-99-891-9887)		20	0.6	0.96	1.36	-	-	-	6.00	45	61989-198-87
D 1819 TX 3 (6145-99-892-0029)		18	1.0	1.20	1.60	-	-	-	6.55	59	61989-200-29
D 1619 TX 3 (6145-99-892-0038)		16	1.5	1.42	1.82	-	-	-	7.10	75	61989-200-38
D 1237 TX 3 (6145-99-892-0043)		12	2.5	2.10	2.60	-	-	-	8.40	125	61989-200-43
D 2419 TX 4 (6145-99-891-9296)	4	24	0.2	0.60	1.00	-	-	-	5.20	33	61989-192-96
D 2019 TX 4 (6145-99-891-9313)		20	0.6	0.96	1.36	-	-	-	6.30	55	61989-193-13
D 1819 TX 4 (6145-99-892-0030)		18	1.0	1.20	1.60	-	-	-	7.00	72	61989-200-30
D 1237 TX 4 (6145-99-075-4650)		12	2.5	2.10	2.60	-	-	-	9.20	159	61907-546-50
D 2419 TX 7 (6145-99-891-9875)	7	24	0.2	0.60	1.00	-	-	-	5.90	44	61989-198-75
D 2219 TX 7 (6145-99-891-9881)		22	0.4	0.76	1.16	-	-	-	6.45	55	61989-198-81
D 2019 TX 7 (6145-99-891-9888)		20	0.6	0.96	1.36	-	-	-	7.20	81	61989-198-88
D 1819 TX 7 (6145-99-892-0031)		18	1.0	1.20	1.60	-	-	-	7.95	110	61989-200-31
D 1619 TX 7 (6145-99-892-0039)		16	1.5	1.42	1.82	-	-	-	8.70	145	61989-200-39
D 1237 TX 7 (6145-99-892-0044)		12	2.5	2.10	2.60	-	-	-	10.7	260	61989-200-44
D 1819 TX 10 (6145-99-892-0032)	10	18	1.0	1.20	1.60	-	-	-	9.80	155	61989-200-32

Continued on next page

Identification

Colours			
Part	1 st core	2 nd core	More than 3 cores in a layer
1 core in a layer	White		
2+ cores in a layer	Red	Blue	White
Outer sheath	Black	DSP 61-12 PT 25 - Description - CSA	
		Country of production - Company code - Year - Last 7 digits of the NSN	

Characteristics & key properties

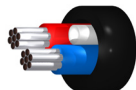
CE	RoHS 2011/65/EU	REACH EC No. 1907/2006	LVD 2014/35/EU	DSP 61-12 Part 25 approval	Flame retar- dant	Low smoke generation	Halogen free
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Seaguard^{DS} // D-TX

HFI 140 insulated, HFS 107 XL B sheathed multicores to Def Stan 61-12 Pt 25
Intended for use on electric power and communications circuits

600/1000V AC U₀/U

40,000 hrs: -30°C to +85°C

Description	Arrangement		Cores		Inner Components		Finished Cable			Article Number	
D-TX (NSN)	No. of cores	Conductor		Insulation		Shield/s	Sheath	Shield/s	Sheath	Weight	
		Size	DSP 61-12 Pt 18		N/A	N/A	N/A	HFS 107 XL B			
			TPC	HFI 140							
		AWG	mm²	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Max Ø	Nom g/m	
D 2419 TX 14 (6145-99-891-9876)	14	24	0.2	0.60	1.00	-	-	-	7.40	73	61989-198-76
D 2219 TX 14 (6145-99-891-9882)		22	0.4	0.76	1.16	-	-	-	8.10	95	61989-198-82
D 2019 TX 14 (6145-99-891-9889)		20	0.6	0.96	1.36	-	-	-	9.40	150	61989-198-89
D 1819 TX 14 (6145-99-892-0033)		18	1.0	1.20	1.60	-	-	-	10.5	205	61989-200-33
D 1619 TX 14 (6145-99-892-0040)		16	1.5	1.42	1.82	-	-	-	11.8	275	61989-200-40
D 1237 TX 14 (6145-99-892-0045)		12	2.5	2.10	2.60	-	-	-	14.9	500	61989-200-45
D 2219 TX 19 (6145-99-891-9883)	19	22	0.4	0.76	1.16	-	-	-	8.75	125	61989-198-83
D 2019 TX 19 (6145-99-891-9890)		20	0.6	0.96	1.36	-	-	-	10.2	190	61989-198-90
D 1819 TX 19 (6145-99-892-0034)		18	1.0	1.20	1.60	-	-	-	11.7	265	61989-200-34
D 2419 TX 24 (6145-99-891-9877)	24	24	0.2	0.60	1.00	-	-	-	9.00	115	61989-198-77
D 2219 TX 24 (6145-99-891-9884)		22	0.4	0.76	1.16	-	-	-	10.1	155	61989-198-84
D 2019 TX 24 (6145-99-891-9891)		20	0.6	0.96	1.36	-	-	-	11.8	235	61989-198-91
D 1819 TX 24 (6145-99-892-0035)		18	1.0	1.20	1.60	-	-	-	13.5	335	61989-200-35
D 1619 TX 24 (6145-99-892-0041)		16	1.5	1.42	1.82	-	-	-	15.2	460	61989-200-41
D 1237 TX 24 (6145-99-892-0046)		12	2.5	2.10	2.60	-	-	-	19.2	830	61989-200-46
D 2019 TX 25 (6145-99-823-5736)	25	20	0.6	0.96	1.36	-	-	-	11.7	252	61982-357-36
D 2419 TX 37 (6145-99-891-9878)	37	24	0.2	0.60	1.00	-	-	-	10.2	160	61989-198-78
D 2219 TX 37 (6145-99-891-9885)		22	0.4	0.76	1.16	-	-	-	11.5	215	61989-198-85
D 2019 TX 37 (6145-99-891-9892)		20	0.6	0.96	1.36	-	-	-	13.4	340	61989-198-92
D 1819 TX 37 (6145-99-892-0036)		18	1.0	1.20	1.60	-	-	-	15.4	500	61989-200-36
D 2419 TX 44 (6145-99-891-9879)	44	24	0.2	0.60	1.00	-	-	-	11.4	190	61989-198-79
D 2219 TX 44 (6145-99-891-9886)		22	0.4	0.76	1.16	-	-	-	12.8	280	61989-198-86
D 2019 TX 60 (6145-99-425-1713)	60	20	0.6	0.96	1.36	-	-	-	16.1	545	61942-517-13

Page 2 of 2

Identification

Colours				
Part	1 st core	2 nd core	More than 3 cores in a layer	
1 core in a layer	White			
2+ cores in a layer	Red	Blue	White	All cores numbered from centre outwards if 4 or more cores present
Outer sheath	Black	DSP 61-12 PT 25 - Description - CSA Country of production - Company code - Year - Last 7 digits of the NSN		

Characteristics & key properties

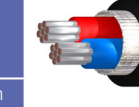
	RoHS 2011/65/EU	REACH EC No. 1907/2006	LVD 2014/35/EU	DSP 61-12 Part 25 approval	Flame retar- dant	Low smoke generation	Halogen free
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Seaguard^{DS} // D-STX

HFI 140 insulated, HFS 107 XL B sheathed, shielded multicores to Def Stan 61-12 Pt 25
Intended for use on electric power and communications circuits

600/1000V AC U₀/U

40,000 hrs: -30°C to +85°C

Description	Arrangement			Cores		Inner Components		Finished Cable			Article Number
D-STX (NSN)	No. of cores	Conductor		Insulation		Shield/s	Sheath	Shield/s	Sheath	Weight	
		Size	DSP 61-12 Pt 18		N/A	N/A	TPC braid	HFS 107 XL B			
			TPC	HFI 140							
		AWG	mm²	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Max Ø	Nom g/m	
D 3007 STX 2 (6145-99-803-6629)	2	30	0.055	0.30	0.70	-	-	1.90	3.90	20	61980-366-29
D 2419 STX 2 (6145-99-891-9339)		24	0.2	0.60	1.00	-	-	2.70	6.00	33	61989-193-39
D 2219 STX 2 (6145-99-892-0086)		22	0.4	0.76	1.16	-	-	3.00	6.30	50	61989-200-86
D 2019 STX 2 (6145-99-891-9361)		20	0.6	0.96	1.36	-	-	3.50	6.80	54	61989-193-61
D 1819 STX 2 (6145-99-892-0053)		18	1.0	1.20	1.60	-	-	4.00	7.30	90	61989-200-53
D 2419 STX 3 (6145-99-891-9341)	3	24	0.2	0.60	1.00	-	-	2.90	6.20	37	61989-193-41
D 2219 STX 3 (6145-99-892-0047)		22	0.4	0.76	1.16	-	-	3.18	6.50	57	61989-200-47
D 2019 STX 3 (6145-99-891-9363)		20	0.6	0.96	1.36	-	-	3.70	7.00	61	61989-193-63
D 1819 STX 3 (6145-99-892-0054)		18	1.0	1.20	1.60	-	-	4.36	7.65	105	61989-200-54
D 2419 STX 4 (6145-99-891-9343)	4	24	0.2	0.60	1.00	-	-	3.10	6.50	45	61989-193-43
D 2019 STX 4 (6145-99-891-9365)		20	0.6	0.96	1.36	-	-	4.10	7.40	73	61989-193-65
D 2419 STX 6 (6145-99-765-4033)	6	24	0.2	0.60	1.00	-	-	3.60	6.40	64	61976-540-33
D 2019 STX 6 (6145-99-660-4108)		20	0.6	0.96	1.36	-	-	4.90	7.40	97	61966-041-08
D 2419 STX 7 (6145-99-891-9345)	7	24	0.2	0.60	1.00	-	-	3.70	7.10	60	61989-193-45
D 2219 STX 7 (6145-99-892-0048)		22	0.4	0.76	1.16	-	-	4.25	7.55	98	61989-200-48
D 2019 STX 7 (6145-99-891-9367)		20	0.6	0.96	1.36	-	-	4.90	8.50	102	61989-193-67
D 1819 STX 7 (6145-99-892-0055)		18	1.0	1.20	1.60	-	-	5.75	9.25	170	61989-200-55
D 2019 STX 10 (6145-99-061-3987)	10	20	0.6	0.96	1.36	-	-	6.30	9.10	142	61906-139-87
D 2419 STX 12 (6145-99-708-9552)	12	24	0.2	0.60	1.00	-	-	4.70	7.90	100	61970-895-52
D 2019 STX 12 (6145-99-446-2412)		20	0.6	0.96	1.36	-	-	6.50	9.30	159	61944-924-12

Continued on next page

Identification

Colours				
Part	1 st core	2 nd core	More than 3 cores in a layer	
1 core in a layer	White			
2+ cores in a layer	Red	Blue	White	All cores numbered from centre outwards if 4 or more cores present
Outer sheath	Black	DSP 61-12 PT 25 - Description - CSA Country of production - Company code - Year - Last 7 digits of the NSN		

Characteristics & key properties

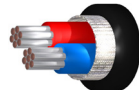
CE	RoHS 2011/65/EU	REACH EC No. 1907/2006	LVD 2014/35/EU	DSP 61-12 Part 25 approval	Flame retar- dant	Low smoke generation	Halogen free
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Seaguard^{DS} // D-STX

HFI 140 insulated, HFS 107 XL B sheathed, shielded multicores to Def Stan 61-12 Pt 25
Intended for use on electric power and communications circuits

600/1000V AC U₀/U

40,000 hrs: -30°C to +85°C

Description	Arrangement			Cores		Inner Components		Finished Cable			Article Number
D-STX (NSN)	No. of cores	Conductor		Insulation		Shield/s	Sheath	Shield/s	Sheath	Weight	
		Size	DSP 61-12 Pt 18		N/A	N/A	TPC braid	HFS 107 XL B			
			TPC	HFI 140							
		AWG	mm²	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Max Ø	Nom g/m	
D 2419 STX 14 (6145-99-891-9347)	14	24	0.2	0.60	1.00	-	-	5.10	9.00	100	61989-193-47
D 2219 STX 14 (6145-99-892-0049)		22	0.4	0.76	1.16	-	-	5.88	9.40	160	61989-200-49
D 2019 STX 14 (6145-99-892-0049)		20	0.6	0.96	1.36	-	-	6.90	11.0	175	61989-193-69
D 1819 STX 14 (6145-99-892-0056)		18	1.0	1.20	1.60	-	-	8.09	12.0	280	61989-200-56
D 2419 STX 18 (6145-99-876-0082)	18	24	0.2	0.60	1.00	-	-	5.50	8.70	130	61987-600-82
D 2019 STX 18 (6145-99-891-6750)		20	0.6	0.96	1.36	-	-	7.70	10.8	222	61989-167-50
D 2419 STX 19 (6145-99-891-9349)	19	24	0.2	0.60	1.00	-	-	5.70	9.60	121	61989-193-49
D 2219 STX 19 (6145-99-892-0050)		22	0.4	0.76	1.16	-	-	6.55	10.1	190	61989-200-50
D 2419 STX 24 (6145-99-891-9351)	24	24	0.2	0.60	1.00	-	-	6.70	11.0	146	61989-193-51
D 2219 STX 24 (6145-99-892-0051)		22	0.4	0.76	1.16	-	-	7.70	11.4	220	61989-200-51
D 1819 STX 24 (6145-99-891-9371)		18	1.0	1.20	1.60	-	-	9.10	13.0	273	61989-193-71
D 2419 STX 25 (6145-99-967-9941)	25	24	0.2	0.60	1.00	-	-	6.70	10.3	173	61996-799-41
D 2019 STX 25 (6145-99-535-3593)		20	0.6	0.96	1.36	-	-	9.30	12.5	290	61953-535-93
D 2419 STX 36 (6145-99-172-8995)	36	24	0.2	0.60	1.00	-	-	7.50	11.1	220	61917-289-95
D 2019 STX 36 (6145-99-215-3180)		20	0.6	0.96	1.36	-	-	10.5	13.9	391	61921-531-80
D 2219 STX 37 (6145-99-892-0052)	37	22	0.4	0.76	1.16	-	-	8.85	12.8	295	61989-200-52
D 2219 STX 44 (6145-99-892-0087)	44	22	0.4	0.76	1.16	-	-	10.2	14.1	375	61989-200-87
D 2419 STX 50 (6145-99-147-0155)	50	24	0.2	0.60	1.00	-	-	8.90	12.9	291	61914-701-55
D 2019 STX 60 (6145-99-983-0385)	60	20	0.6	0.96	1.36	-	-	13.4	17.0	612	61998-303-85

Page 2 of 2

Identification

Colours				
Part	1 st core	2 nd core	More than 3 cores in a layer	
1 core in a layer	White			
2+ cores in a layer	Red	Blue	White	All cores numbered from centre outwards if 4 or more cores present
Outer sheath	Black	DSP 61-12 PT 25 - Description - CSA Country of production - Company code - Year - Last 7 digits of the NSN		

Characteristics & key properties

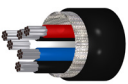
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Seaguard^{DS} // D-STX x2

HFI 140 insulated, HFS 107 XL B sheathed, shielded multipairs to Def Stan 61-12 Pt 25
Intended for use on electric power and communications circuits

600/1000V AC U₀/U

40,000 hrs: -30°C to +85°C

Description	Arrangement		Cores			Inner Components		Finished Cable			Article Number
D-STX x2 (NSN)	No. of cores	Conductor		Insulation		Shield/s	Sheath	Shield/s	Sheath	Weight	
		Size	DSP 61-12 Pt 18		N/A	N/A	TPC braid	HFS 107 XL B			
			TPC	HFI 140					Nom Ø	Nom Ø	
D 2219 STX 3x2 (6145-99-892-0057)	3x2	22	0.35	0.76	1.16	-	-	5.02	8.30	110	61989-200-57
D 1819 STX 3x2 (6145-99-892-0064)		18	1.0	1.20	1.60	-	-	6.86	10.4	175	61989-200-64
D 2219 STX 5x2 (6145-99-892-0058)	5x2	22	0.35	0.76	1.16	-	-	6.08	9.60	145	61989-200-58
D 1819 STX 5x2 (6145-99-892-0065)		18	1.0	1.20	1.60	-	-	8.37	12.3	245	61989-200-65
D 2219 STX 7x2 (6145-99-892-0059)	7x2	22	0.35	0.76	1.16	-	-	6.67	10.2	170	61989-200-59
D 1819 STX 7x2 (6145-99-892-0066)		18	1.0	1.20	1.60	-	-	9.22	13.1	300	61989-200-66
D 2219 STX 12x2 (6145-99-892-0060)	12x2	22	0.35	0.76	1.16	-	-	8.92	12.6	255	61989-200-60
D 1819 STX 12x2 (6145-99-892-0067)		18	1.0	1.20	1.60	-	-	12.6	16.6	500	61989-200-67
D 2219 STX 19x2 (6145-99-892-0061)	19x2	22	0.35	0.76	1.16	-	-	10.7	14.6	375	61989-200-61
D 1819 STX 19x2 (6145-99-892-0068)		18	1.0	1.20	1.60	-	-	15.0	19.1	700	61989-200-68
D 2219 STX 27x2 (6145-99-892-0062)	27x2	22	0.35	0.76	1.16	-	-	13.0	17.0	490	61989-200-62
D 1819 STX 27x2 (6145-99-892-0069)		18	1.0	1.20	1.60	-	-	18.2	22.8	980	61989-200-69
D 2219 STX 37x2 (6145-99-892-0063)	37x2	22	0.35	0.76	1.16	-	-	14.6	18.8	640	61989-200-63

Identification

Colours							
Part	1 st pair: 1 st core	1 st pair: 2 nd core	2 nd pair: 1 st core	2 nd pair: 2 nd core	3+ pairs: 1 st core	3+ pairs: 2 nd core	
1 pair in a layer	Black	White					
2+ pairs in a layer	Black	Red	Black	Blue	Black	White	All cores numbered
Outer sheath	Black	DSP 61-12 PT 25 - Description - CSA Country of production - Company code - Year - Last 7 digits of the NSN					

Characteristics & key properties


	RoHS 2011/65/EU	REACH EC No. 1907/2006	LVD 2014/35/EU	DSP 61-12 Part 25 approval	Flame retar- dant	Low smoke generation	Halogen free
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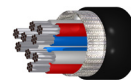
Seaguard^{DS} // D-STX x3

HFI 140 insulated, HFS 107 XL B sheathed, shielded multitruples to Def Stan 61-12 Pt 25
Intended for use on electric power and communications circuits

600/1000V AC U₀/U

40,000 hrs: -30°C to +85°C

Description	Arrangement		Cores		Inner Components		Finished Cable			Article Number	
D-STX x3 (NSN)	No. of cores	Conductor		Insulation		Shield/s	Sheath	Shield/s	Sheath	Weight	
		Size		DSP 61-12 Pt 18		N/A	N/A	TPC braid	HFS 107 XL B		
		AWG	mm²	Nom Ø	HFI 140					Nom Ø	
D 2219 STX 2x3 (6145-99-892-0082)	2x3	22	0.35	0.76	1.16	-	-	5.86	9.20	120	61989-200-82
D 2219 STX 3x3 (6145-99-892-0083)	3x3	22	0.35	0.76	1.16	-	-	6.26	9.70	150	61989-200-83
D 2219 STX 4x3 (6145-99-892-0084)	4x3	22	0.35	0.76	1.16	-	-	7.07	10.4	180	61989-200-84
D 2219 STX 7x3 (6145-99-892-0085)	7x3	22	0.35	0.76	1.16	-	-	8.54	12.3	250	61989-200-85



Identification

Colours				
Part	1 st core	2 nd core	3 rd core	
Each triple	Red	Blue	White	
Inner sheath	Black	All inner sheaths numbered		
Outer sheath	Black	DSP 61-12 PT 25 - Description - CSA Country of production - Company code - Year - Last 7 digits of the NSN		

Characteristics & key properties

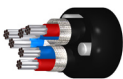
CE	RoHS 2011/65/EU	REACH EC No. 1907/2006	LVD 2014/35/EU	DSP 61-12 Part 25 approval	Flame retar- dant	Low smoke generation	Halogen free
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Seaguard^{DS} // D-STRN2-TX

HFI 140 insulated, HFS 107 XL B sheathed, individually shielded multipairs to Def Stan 61-12 Pt 25
Intended for use on electric power and communications circuits

600/1000V AC U₀/U

40,000 hrs: -30°C to +85°C

Description	Arrangement		Cores		Inner Components		Finished Cable			Article Number	
D-STRN2-TX (NSN)	No. of cores	Conductor		Insulation		Shield/s	Sheath	Shield/s	Sheath	Weight	
		Size	DSP 61-12 Pt 18		TPC braid	HFI 147	N/A	HFS 107 XL B			
			TPC	HFI 140							
		AWG	mm²	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Max Ø	Nom g/m	
D 2219 STRN 2 - TX 3 (6145-99-892-0070)	3x2	22	0.35	0.76	1.16	2.80	3.30	-	10.4	130	61989-200-70
D 1819 STRN 2 - TX 3 (6145-99-892-0073)		18	1.0	1.20	1.60	3.65	4.20	-	13.0	210	61989-200-73
D 2219 STRN 2 - TX 5 (6145-99-892-0071)	5x2	22	0.35	0.76	1.16	2.80	3.30	-	12.5	200	61989-200-71
D 1819 STRN 2 - TX 5 (6145-99-892-0074)		18	1.0	1.20	1.60	3.65	4.20	-	15.4	320	61989-200-74
D 2219 STRN 2 - TX 7 (6145-99-892-0072)	7x2	22	0.35	0.76	1.16	2.80	3.30	-	13.5	260	61989-200-72
D 1819 STRN 2 - TX 7 (6145-99-892-0075)		18	1.0	1.20	1.60	3.65	4.20	-	16.9	420	61989-200-75

Identification

Colours			
Part	1 st core	2 nd core	
Each pair	Red	Blue	
Inner sheath	Black	All inner sheaths numbered	
Outer sheath	Black	DSP 61-12 PT 25 - Description - CSA Country of production - Company code - Year - Last 7 digits of the NSN	

Characteristics & key properties

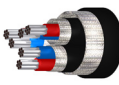
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Seaguard^{DS} // D-STRN2-STX

HFI 140 insulated, HFS 107 XL B sheathed, individual & overall shielded multipairs to Def Stan 61-12 Pt 25
Intended for use on electric power and communications circuits

600/1000V AC U₀/U

40,000 hrs: -30°C to +85°C

Description	Arrangement			Cores		Inner Components		Finished Cable			Article Number
D-STRN2-STX (NSN)	No. of cores	Conductor		Insulation		Shield/s	Sheath	Shield/s	Sheath	Weight	
		Size	DSP 61-12 Pt 18		TPC braid	HFI 147	TPC braid	HFS 107 XL B			
			TPC	HFI 140					Nom Ø	Nom Ø	
D 2219 STRN 2 - STX 3 (6145-99-892-0076)	3x2	22	0.35	0.76	1.16	2.80	3.30	7.95	11.6	220	61989-200-76
D 2219 STRN 2 - STX 5 (6145-99-892-0077)	5x2	22	0.35	0.76	1.16	2.80	3.30	9.75	13.5	315	61989-200-77
D 2219 STRN 2 - STX 7 (6145-99-892-0078)	7x2	22	0.35	0.76	1.16	2.80	3.30	9.75	13.5	315	61989-200-78
D 2219 STRN 2 - STX 12 (6145-99-892-0079)	12x2	22	0.35	0.76	1.16	2.80	3.30	14.5	18.8	625	61989-200-79
D 2219 STRN 2 - STX 19 (6145-99-892-0080)	19x2	22	0.35	0.76	1.16	2.80	3.30	17.7	22.6	975	61989-200-80
D 2219 STRN 2 - STX 27 (6145-99-892-0081)	27x2	22	0.35	0.76	1.16	2.80	3.30	21.5	26.7	1,330	61989-200-81

Identification

Colours			
Part	1 st core	2 nd core	
Each pair	Red	Blue	
Inner sheath	Black	All inner sheaths numbered	
Outer sheath	Black	DSP 61-12 PT 25 - Description - CSA Country of production - Company code - Year - Last 7 digits of the NSN	

Characteristics & key properties

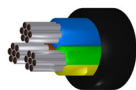
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Seaguard^{DS} // D-TX

HFI 140 insulated, HFS 107 XL B sheathed power cables, to Def Stan 61-12 Pt 25
Intended for use on electric power and communications circuits

600/1000V AC U₀/U

40,000 hrs: -30°C to +85°C

Description	Arrangement		Cores		Inner Components		Finished Cable			Article Number	
D-TX (NSN)	No. of cores	Conductor		Insulation		Shield/s	Sheath	Shield/s	Sheath	Weight	
		Size	DSP 61-12 Pt 18		N/A	N/A	N/A	HFS 107 XL B			
			TPC	HFI 140							
		AWG	mm²	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Max Ø	Nom g/m	
DM 4 TX 1 * (6145-99-595-2332)	1	-	4	2.48	3.20	-	-	-	5.80	61	61959-523-32
DM 6 TX 1 * (6145-99-595-2333)		-	6	2.92	4.00	-	-	-	6.60	88	61959-523-33
DM 10 TX 1 * (6145-99-595-2334)		-	10	3.93	5.10	-	-	-	7.70	132	61959-523-34
D 1819 TX 2 (6145-99-891-9410)	2	18	1.0	1.20	1.60	-	-	-	6.30	47	61989-194-10
DM 4 TX 2 (6145-99-595-2335)		-	4	2.48	3.20	-	-	-	9.20	128	61959-523-35
DM 6 TX 2 (6145-99-595-2340)		-	6	2.92	4.00	-	-	-	11.05	192	61959-523-40
DM 10 TX 2 (6145-99-595-2342)		-	10	3.93	5.10	-	-	-	13.5	301	61959-595-42
D 2019 TX 3 (6145-99-891-9412)	3	20	0.6	0.96	1.36	-	-	-	6.00	45	61989-194-12
D 1819 TX 3 (6145-99-891-9414)		18	1.0	1.20	1.60	-	-	-	6.60	59	61989-194-14
D 1619 TX 3 (6145-99-891-9416)		16	1.2	1.42	1.82	-	-	-	7.10	75	61989-194-16
D 1237 TX 3 (6145-99-891-9418)		12	2.5	2.10	2.60	-	-	-	8.40	125	61989-194-18
DM 4 TX 3 (6145-99-595-2336)		-	4	2.48	3.20	-	-	-	9.80	171	61959-523-36
DM 6 TX 3 (6145-99-595-2341)		-	6	2.92	4.00	-	-	-	11.65	256	61959-523-41
DM 10 TX 3 (6145-99-595-2343)		-	10	3.93	5.10	-	-	-	14.5	409	61959-523-43
DM 4 TX 4 * (6145-99-595-2337)	4	-	4	2.48	3.20	-	-	-	10.75	220	61959-523-37
DM 4 TX 7 * (6145-99-595-2338)	7	-	4	2.48	3.20	-	-	-	12.8	345	61959-523-38
DM 4 TX 10 * (6145-99-595-2339)	10	-	4	2.48	3.20	-	-	-	16.2	501	61959-523-39

* Note: Def Stan 61-12 Part 25 does not specify the core colour sequence for these power cables - please contact one of our sales offices for further information

Identification

Colours						
Part	1 st core	2 nd core	3 rd core	4 th core	5 th core	More than 5 cores
2 & 3 Cores with earth	Brown	Blue	Yellow /Green			
4+ Cores with earth	Brown	Black	Grey	Yellow /Green	Blue	All cores Black and numbered +1 Yw/Gn
4+ Cores without earth	Brown	Black	Grey	Blue	Black	All cores Black and numbered
Outer sheath	Black	DSP 61-12 PT 25 - Description - CSA Country of production - Company code - Year - Last 7 digits of the NSN				

Characteristics & key properties

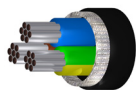
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Seaguard^{DS} // D-STX

HFI 140 insulated, HFS 107 XL B sheathed, shielded power cables to Def Stan 61-12 Pt 25
Intended for use on electric power and communications circuits

600/1000V AC U₀/U

40,000 hrs: -30°C to +85°C

Description	Arrangement			Cores		Inner Components		Finished Cable			Article Number
D-STX (NSN)	No. of cores	Conductor		Insulation		Shield/s	Sheath	Shield/s	Sheath	Weight	
		Size	DSP 61-12 Pt 18		N/A	N/A	TPC braid	HFS 107 XL B			
			TPC	HFI 140							
		AWG	mm²	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Max Ø	Nom g/m	
D 1237 STX 2 (6145-99-096-2821)	2	12	2.5	2.10	2.60	-	-	5.90	8.70	123	61909-628-21
DM 4 STX 2 (6145-99-595-2344)		-	4	2.48	3.20	-	-	7.00	10.3	168	61959-523-44
DM 6 STX 2 (6145-99-595-2346)		-	6	2.92	4.00	-	-	8.60	12.0	236	61959-523-46
DM 10 STX 2 (6145-99-595-2348)		-	10	3.93	5.10	-	-	10.9	14.2	347	61959-523-48
D 1819 STX 3 (6145-99-891-9420)	3	18	1.0	1.20	1.60	-	-	4.36	7.65	98	61989-194-20
D 1619 STX 3 (6145-99-891-9422)		16	1.2	1.42	1.82	-	-	4.80	8.20	105	61989-194-22
D 1237 STX 3 (6145-99-891-9424)		12	2.5	2.10	2.60	-	-	6.10	9.60	146	61989-194-24
DM 4 STX 3 (6145-99-595-2345)		-	4	2.48	3.20	-	-	7.50	10.8	211	61959-523-45
DM 6 STX 3 (6145-99-595-2347)		-	6	2.92	4.00	-	-	9.20	12.55	301	61959-523-47
DM 10 STX 3 (6145-99-595-2349)		-	10	3.93	5.10	-	-	11.6	15.0	452	61959-523-49
D 1237 STX 4 * (6145-99-701-4332)	4	12	2.5	2.10	2.60	-	-	7.00	9.80	186	61970-143-32

* Note: Def Stan 61-12 Part 25 does not specify the core colour sequence for these power cables - please contact one of our sales offices for further information

Identification

Colours						
Part	1 st core	2 nd core	3 rd core	4 th core	5 th core	More than 5 cores
2 & 3 Cores with earth	Brown	Blue	Yellow /Green			
4+ Cores with earth	Brown	Black	Grey	Yellow /Green	Blue	All cores Black and numbered +1 Yw/Gn
4+ Cores without earth	Brown	Black	Grey	Blue	Black	All cores Black and numbered
Outer sheath	Black	DSP 61-12 PT 25 - Description - CSA Country of production - Company code - Year - Last 7 digits of the NSN				

Characteristics & key properties

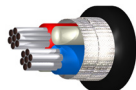
	RoHS 2011/65/EU	REACH EC No. 1907/2006	LVD 2014/35/EU	DSP 61-12 Part 25 approval	Flame retar- dant	Low smoke generation	Halogen free
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Seaguard^{DS} // D-TX variants

HFI 140 insulated, HFS 107 XL B sheathed, multicores to Def Stan 61-12 Pt 25
Intended for use on electric power and communications circuits

600/1000V AC U₀/U

40,000 hrs: -30°C to +85°C

Description	Arrangement			Cores		Inner Components		Finished Cable			Article Number
D-TX Variants (NSN)	No. of cores	Conductor		Insulation		Shield/s	Sheath	Shield/s	Sheath	Weight	
		Size	DSP 61-12 Pt 18		TPC braid	HFI 147	TPC braid	HFS 107 XL B			
			TPC	HFI 140							
		AWG	mm²	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Nom Ø	Max Ø	Nom g/m	
D 2419 STX 1x2 (6145-99-300-3357)	1x2	24	0.22	0.60	1.00	-	-	2.45	4.75	TBC	61930-033-57
D 2419 STX 2x2 (6145-99-151-1420)	2x2	24	0.22	0.60	1.00	-	-	4.15	6.75	TBC	61915-114-20
D 2419 STX 3x2 (6145-99-814-3055)	3x2	24	0.22	0.60	1.00	-	-	4.40	7.05	TBC	61981-430-55
D 2419 STX 5x2 (6145-99-495-8660)	5x2	24	0.22	0.60	1.00	-	-	5.30	8.15	TBC	61949-586-60
D 2419 STRN2 STX2 (6145-99-660-1418)	2x2	24	0.22	0.60	1.00	2.45	3.0	7.70	9.90	TBC	61966-014-18
D 2419 STRN2 STX2 +2x4 (6145-99-663-3453)	2x2 + 2x4	24	0.22	0.60	1.00	2.45	3.0	7.95	10.2	TBC	61966-334-53
D 2019 STRN2 STX2 +2x2 (6145-99-708-9090)	2x2 + 2x2	20	0.60	0.96	1.36	3.20	3.7	9.30	11.7	TBC	61970-890-90
D 2019 STRN2 STX1 +5x2 (6145-99-902-1196)	1x2 + 5x2	20	0.60	0.96	1.36	3.20	3.7	-	12.0	TBC	61990-211-96
D 2419 STRN 4 TX 7 (6145-99-547-6530)	7x4	24	0.22	0.60	1.00	2.85	3.4	-	14.8	TBC	61954-765-30
D 2419 STX 1x2+3 (6145-99-438-6390)	1x2+3	24	0.22	0.60	1.00	-	-	-	6.80	TBC	61943-863-90
D 2219 STX 12 (6145-99-724-8835)	12	22	0.35	0.76	1.16	-	-	5.40	7.80	108	61972-488-35
D 2019 STX 4 (6145-99-724-8838)	4	20	0.60	0.96	1.36	-	-	4.10	6.00	67	61972-488-38
D 1619 STX 2 (6145-99-724-8843)	2	16	1.5	1.20	1.82	-	-	4.50	6.00	67	61972-488-43
D 2019 SSTX 2 (6145-99-724-8840)	2+2F	20	0.60	0.96	1.36	-	-	3.40 4.00	5.00	52	61972-488-40
D 2019 SSTX 3 (6145-99-724-8837)	3+3F	20	0.60	0.96	1.36	-	-	3.70 4.90	5.10	60	61972-488-37
D 2019 SSTX 6 (6145-99-724-8839)	6+1F	20	0.60	0.96	1.36	-	-	4.90 5.50	7.80	121	61972-488-39
D 2019 SSTRN2 STX9 (6145-99-724-8841)	9x2	20	0.60	0.96	1.36	3.20 3.60	4.3	18.3	21.3	699	61972-488-41
D 2019 SSTRN2 STX19 (6145-99-724-8842)	19x2	20	0.60	0.96	1.36	3.20 3.60	4.3	23.1	26.3	1,300	61972-488-42
D 2219 STRN2 SSSTX19 (6145-99-724-8836)	19x2	22	0.35	0.76	1.16	2.80	3.3	15.5 15.9 16.8	19.8	724	61972-488-36
D 2019 ST1 - TX2 (6145-99-527-1402)	2	20	0.60	0.96	1.36	1.80	-	-	6.50	60	61952-714-02

Continued on next page

Identification

Colours			
Part	1 st core	2 nd core	More than 3 cores in a layer
1 core in a layer	White		
2+ cores in a layer	Red	Blue	White
Outer sheath	Black	DSP 61-12 PT 25 - Description - CSA	
		Country of production - Company code - Year - Last 7 digits of the NSN	


Characteristics & key properties

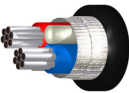
CE	RoHS 2011/65/EU	REACH EC No. 1907/2006	LVD 2014/35/EU	DSP 61-12 Part 25 approval	Flame retar- dant	Low smoke generation	Halogen free
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Seaguard^{DS} // D-TX variants

HFI 140 insulated, HFS 107 XL B sheathed, multicores to Def Stan 61-12 Pt 25
Intended for use on electric power and communications circuits

600/1000V AC U₀/U 40,000 hrs: -30°C to +85°C

Description	Arrangement			Cores		Inner Components		Finished Cable			Article Number
D-TX Variants (NSN)	No. of cores	Conductor		Insulation		Shield/s	Sheath	Shield/s	Sheath	Weight	
		Size		DSP 61-12 Pt 18		TPC braid	HFI 147	TPC braid	HFS 107 XL B		
				TPC	HFI 140					Nom Ø	
D 2019 ST 1 - TX 3 (6145-99-087-1040)	3	20	0.60	0.96	1.36	1.80	-	-	6.80	74	61908-710-40
D 2019 ST 1 - TX 4 (6145-99-932-6710)	4	20	0.60	0.96	1.36	1.80	-	-	7.60	90	61993-267-10
D 2019 ST 1 - TX 6 (6145-99-930-5980)	6	20	0.60	0.96	1.36	1.80	-	-	8.80	129	61993-059-80
D 2019 ST 1 - TX 7 (6145-99-701-4339)	7	20	0.60	0.96	1.36	1.80	-	-	8.80	136	61970-143-39
D 2019 ST 1 - TX 12 (6145-99-097-6444)	12	20	0.60	0.96	1.36	1.80	-	-	11.4	221	61909-764-44
D 2019 ST 1 - TX 18 (6145-99-300-5264)	18	20	0.60	0.96	1.36	1.80	-	-	13.4	321	61930-052-64
D 2019 ST 1 - TX 25 (6145-99-743-5422)	25	20	0.60	0.96	1.36	1.80	-	-	15.8	425	61974-354-22



Identification

Colours				
Part	1 st core	2 nd core	More than 3 cores in a layer	
1 core in a layer	White			
2+ cores in a layer	Red	Blue	White	All cores numbered from centre outwards if 4 or more cores present
Outer sheath	Black	DSP 61-12 PT 25 - Description - CSA Country of production - Company code - Year - Last 7 digits of the NSN		

Characteristics & key properties

CE	RoHS 2011/65/EU	REACH EC No. 1907/2006	LVD 2014/35/EU	DSP 61-12 Part 25 approval	Flame retardant	Low smoke generation	Halogen free
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Materials // Insulation and sheath information

Every Seaguard cable uses rugged, fully halogen free materials throughout their design, backed up with tough, chemically resistant and flame retardant, halogen free inner and outer sheath materials.

Conductors

Tin plated copper conductors and braided screens provide good all-round mechanical performance. Stronger than bare copper and without the cost of silver or nickel plating, tin plated cores are easy to solder whilst our stranding ensures both good flex-life and flexibility.

Insulation

DSP 61-12 Pt 9 cables use HFI 90 L as dielectric, giving them the best possible electrical properties in a completely halogen free package.

DSP 61-12 Pt 18 cable types use Habia Cable's HFI 140 dual wall insulation; this is a flexible, yet abrasion resistant, high temperature material with good chemical and fire resistance properties as well as being halogen free.

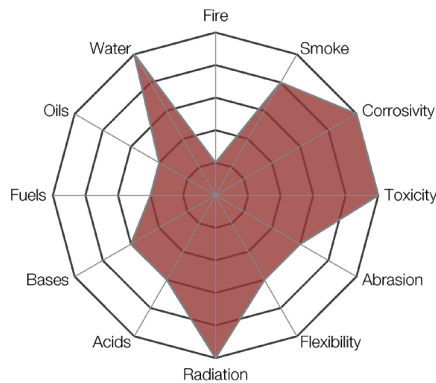
Sheaths

Where required, Habia Cable uses our HFI 147 material as an inner sheath material to provide a halogen free, flame retardant and thin wall separation layer.

All cables use the hard wearing, HFS 107 XL B outer sheath material. Flame retardant, chemically resistant and halogen free, HFS 107 XL B provides the best possible inboard protection.

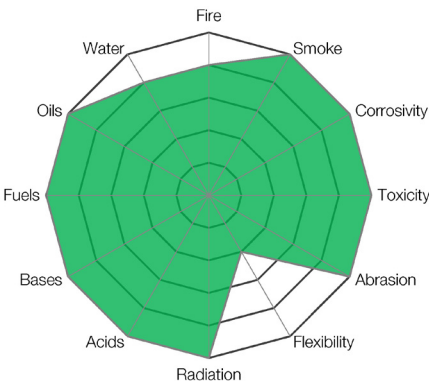
HFI 90 L

Used as dielectric for Def Stan 61-12 Part 9



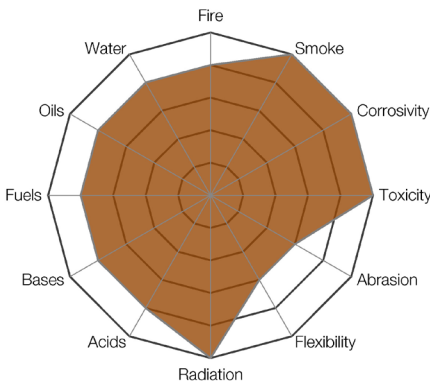
HFI 140

Used as insulation for: - Def Stan 61-12 Part 18
- Def Stan 61-12 Part 25



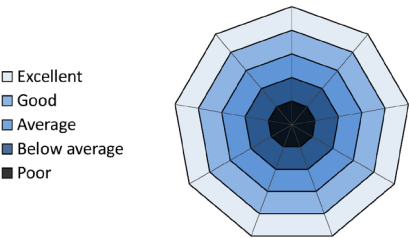
HFS 107 XL B

Used as outer sheath for: - Def Stan 61-12 Part 9
- Def Stan 61-12 Part 18
- Def Stan 61-12 Part 25



Spider graphs

Our material performance can be compared via these simple key-property graphs. More detailed information can be provided on request.



Important

This information is offered solely as a convenience to Habia Cable's customers and is intended only as a guide. Data is based on typical values and might vary depending on cable construction and processing method.

Habia Cable has compiled the information contained herein from what it believes to be accurate and factual sources as of the date compiled. Any changes in the data will be made without notification.

Habia Cable is one of Europe's leading wire and cable manufacturers. We develop, manufacture and market custom design cables and harness systems for demanding applications in a number of diverse industries.

The company has a global presence and worldwide sales of custom design and standard products in more than 50 countries.

We aim to provide a high level of customer service and technical competence with competitive lead times and low minimum order quantities.

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