

RE-T2X(st)H SWAH - BS EN 50288-7 Mica XLPE / LSZH / CAM / SWA / LSZH Cable



Eland Product Group: I

APPLICATION

These cables are designed to connect electrical instrument circuits and provide communication services in and around process plants (e.g. petrochemical industry etc.). Suitable for direct burial applications. Used in areas where circuit integrity is required in the event of a fire situation. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

CONSTRUCTION

Conductor

Class 2 stranded copper conductor

Insulation

Mica Tape

XLPE (Cross-Linked Polyethylene)

Individual And Collective Screen Or Collective Screen

PET (Polyester Tape)

AL/PET (Aluminium/Polyester Tape) with tinned drain wire

Multi-Core, Multi-Pair, PiMF and TiMF Type

Inner Sheath

LSZH (Low Smoke Zero Halogen)

Armour

GSWA (Galvanized Steel Wire Armour)

Outer Sheath

LSZH (Low Smoke Zero Halogen)

CABLE STANDARDS

BS EN 50288-7, HD 383, BS EN 50290-2, BS EN/IEC 60332-1, BS EN/IEC 60332-3-24 BS EN 50267-2-3, BS EN 50267-2-1, IEC 60331-23, BS EN 61034-2, BS EN 60228



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Voltage Rating (Uo/U)

300/500V

Operating Temperature

Fixed: -30°C to 90°C

Minimum Bending Radius

10 x overall diameter

Core Identification

○ White and ● Black numbered

● Blue and ● Black numbered cores available on request

Outer Sheath Colour

● Blue ● Black ● Orange

Note

90V and 500V rated cables available on request

DIMENSIONS

Collectively Screened Multi-Core

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RETXHSHC2C05**	2	0.5	10.4	205
RETXHSHC2C75**	2	0.75	10.8	218
RETXHSHC2C10**	2	1	11.4	238
RETXHSHC2C15**	2	1.5	12	271
RETXHSHC2C25**	2	2.5	13.3	326
RETXHSHC3C05**	3	0.5	10.6	217
RETXHSHC3C75**	3	0.75	11	235
RETXHSHC3C10**	3	1	11.5	258
RETXHSHC3C15**	3	1.5	12.4	298
RETXHSHC3C25**	3	2.5	13.6	371
RETXHSHC4C05**	4	0.5	11.1	234
RETXHSHC4C75**	4	0.75	11.4	254
RETXHSHC4C10**	4	1	12.2	289
RETXHSHC4C15**	4	1.5	13	334
RETXHSHC4C25**	4	2.5	14.4	417
RETXHSHC5C05**	5	0.5	11.9	266
RETXHSHC5C75**	5	0.75	12.3	296
RETXHSHC5C10**	5	1	12.4	310
RETXHSHC5C15**	5	1.5	13.8	380
RETXHSHC5C25**	5	2.5	15.6	488
RETXHSHC6C05**	6	0.5	12.4	291
RETXHSHC6C75**	6	0.75	12.9	324
RETXHSHC6C10**	6	1	13.5	359
RETXHSHC6C15**	6	1.5	14.5	424
RETXHSHC6C25**	6	2.5	16.5	548
RETXHSHC7C05**	7	0.5	12.4	300
RETXHSHC7C75**	7	0.75	12.9	333
RETXHSHC7C10**	7	1	13.5	368
RETXHSHC7C15**	7	1.5	14.5	438
RETXHSHC7C25**	7	2.5	16.5	568
RETXHSHC10C05**	10	0.5	14.2	367
RETXHSHC10C75**	10	0.75	14.9	420
RETXHSHC10C10**	10	1	15.9	480
RETXHSHC10C15**	10	1.5	17.2	570
RETXHSHC10C25**	10	2.5	19.8	758
RETXHSHC12C05**	12	0.5	14.4	394
RETXHSHC12C75**	12	0.75	15.2	450
RETXHSHC12C10**	12	1	16.3	519
RETXHSHC12C15**	12	1.5	17.6	621
RETXHSHC12C25**	12	2.5	20.2	825
RETXHSHC19C05**	19	0.5	16.2	500
RETXHSHC19C75**	19	0.75	17.1	580
RETXHSHC19C10**	19	1	18.2	660
RETXHSHC19C15**	19	1.5	19.9	820
RETXHSHC19C25**	19	2.5	23.8	1305

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RETXHSHC24C05**	24	0.5	18	591
RETXHSHC24C75**	24	0.75	19	680
RETXHSHC24C10**	24	1	21.2	911
RETXHSHC24C15**	24	1.5	23.3	1119
RETXHSHC24C25**	24	2.5	27	1514

Collectively Screened Multi-Pair

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RETXHSHC1P05**	1	0.5	10.6	206
RETXHSHC1P75**	1	0.75	10.8	222
RETXHSHC1P10**	1	1	11.4	239
RETXHSHC1P13**	1	1.3	11.8	259
RETXHSHC1P15**	1	1.5	12	272
RETXHSHC2P05**	2	0.5	12.8	289
RETXHSHC2P75**	2	0.75	13.4	321
RETXHSHC2P10**	2	1	14	353
RETXHSHC2P13**	2	1.3	14.7	384
RETXHSHC2P15**	2	1.5	15	402
RETXHSHC4P05**	4	0.5	14	353
RETXHSHC4P75**	4	0.75	14.8	400
RETXHSHC4P10**	4	1	15.9	450
RETXHSHC4P13**	4	1.3	16.6	500
RETXHSHC4P15**	4	1.5	17.0	528
RETXHSHC6P05**	6	0.5	16	452
RETXHSHC6P75**	6	0.75	17.0	514
RETXHSHC6P10**	6	1	18	585
RETXHSHC6P13**	6	1.3	19.0	652
RETXHSHC6P15**	6	1.5	20.1	721
RETXHSHC8P05**	8	0.5	17.2	506
RETXHSHC8P75**	8	0.75	18.2	582
RETXHSHC8P10**	8	1	19.5	668
RETXHSHC8P13**	8	1.3	21.3	860
RETXHSHC8P15**	8	1.5	22.1	926
RETXHSHC10P05**	10	0.5	18.6	580
RETXHSHC10P75**	10	0.75	20.1	683
RETXHSHC10P10**	10	1	22.1	891
RETXHSHC10P13**	10	1.3	23.5	1020
RETXHSHC10P15**	10	1.5	24.4	1087
RETXHSHC12P05**	12	0.5	18.9	616
RETXHSHC12P75**	12	0.75	21.1	841
RETXHSHC12P10**	12	1	22.4	957
RETXHSHC12P13**	12	1.3	23.9	1147
RETXHSHC12P15**	12	1.5	25.2	1201
RETXHSHC16P05**	16	0.5	21.7	860
RETXHSHC16P75**	16	0.75	23.4	1013
RETXHSHC16P10**	16	1	25.2	1185

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RETXHSHC16P13**	16	1.3	26.4	1327
RETXHSHC16P15**	16	1.5	27.4	1446
RETXHSHC20P05**	20	0.5	23.8	998
RETXHSHC20P75**	20	0.75	25.5	1165
RETXHSHC20P10**	20	1	27.4	1368
RETXHSHC20P13**	20	1.3	29.2	1562
RETXHSHC20P15**	20	1.5	31	1725
RETXHSHC24P05**	24	0.5	25.2	1115
RETXHSHC24P75**	24	0.75	27.3	1320
RETXHSHC24P10**	24	1	29.2	1538
RETXHSHC24P13**	24	1.3	31.3	1695
RETXHSHC24P15**	24	1.5	35	2211

Collectively and Individually Screened Pairs in Metal Foil - PiMF

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RETXHSHI2P05**	2	0.5	14	340
RETXHSHI2P75**	2	0.75	14.5	370
RETXHSHI2P10**	2	1	15.5	411
RETXHSHI2P13**	2	1.3	16.5	455
RETXHSHI2P15**	2	1.5	16.8	470
RETXHSHI4P05**	4	0.5	15.5	430
RETXHSHI4P75**	4	0.75	16.5	475
RETXHSHI4P10**	4	1	17.5	530
RETXHSHI4P13**	4	1.3	18.2	580
RETXHSHI4P15**	4	1.5	19	615
RETXHSHI6P05**	6	0.5	17.5	550
RETXHSHI6P75**	6	0.75	18.8	615
RETXHSHI6P10**	6	1	20	695
RETXHSHI6P13**	6	1.3	21	875
RETXHSHI6P15**	6	1.5	22.5	925
RETXHSHI8P05**	8	0.5	18.8	610
RETXHSHI8P75**	8	0.75	20	700
RETXHSHI8P10**	8	1	21.5	895
RETXHSHI8P13**	8	1.3	23.5	1010
RETXHSHI8P15**	8	1.5	24	1060
RETXHSHI10P05**	10	0.5	22	850
RETXHSHI10P75**	10	0.75	23.9	980
RETXHSHI10P10**	10	1	25	1085
RETXHSHI10P13**	10	1.3	26.5	1210
RETXHSHI10P15**	10	1.5	27.5	1300
RETXHSHI12P05**	12	0.5	22.5	910
RETXHSHI12P75**	12	0.75	24.5	1050
RETXHSHI12P10**	12	1	26	1180
RETXHSHI12P13**	12	1.3	27.5	1320
RETXHSHI12P15**	12	1.5	28.2	1470
RETXHSHI16P05**	16	0.5	24.5	1090
RETXHSHI16P75**	16	0.75	26.5	1250

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RETXHSHI16P10**	16	1	28.2	1415
RETXHSHI16P13**	16	1.3	30	1600
RETXHSHI16P15**	16	1.5	31	1715
RETXHSHI20P05**	20	0.5	27	1270
RETXHSHI2P75**	20	0.75	29	1450
RETXHSHI20P10**	20	1	31	1670
RETXHSHI20P13**	20	1.3	33.6	2050
RETXHSHI20P15**	20	1.5	35	2221
RETXHSHI24P05**	24	0.5	30	1460
RETXHSHI24P75**	24	0.75	31.8	1680
RETXHSHI24P10**	24	1	35	2130
RETXHSHI24P13**	24	1.3	37.5	2420
RETXHSHI24P15**	24	1.5	38.7	2600

Collectively and Individually Screened Triple in Metal Foil - TiMF

ELAND PART NO.	NO. OF TRIPLE	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RETXHSHI2T05**	2	0.5	15	380
RETXHSHI2T75**	2	0.75	15.9	425
RETXHSHI2T10**	2	1	16.7	465
RETXHSHI2T13**	2	1.3	17.6	515
RETXHSHI2T15**	2	1.5	18	545
RETXHSHI4T05**	4	0.5	16.8	485
RETXHSHI4T75**	4	0.75	17.7	545
RETXHSHI4T10**	4	1	18.7	610
RETXHSHI4T13**	4	1.3	20	700
RETXHSHI4T15**	4	1.5	20.4	735
RETXHSHI6T05**	6	0.5	19.1	620
RETXHSHI6T75**	6	0.75	21.2	830
RETXHSHI6T10**	6	1	22.3	925
RETXHSHI6T13**	6	1.3	23.9	1055
RETXHSHI6T15**	6	1.5	24.5	1115
RETXHSHI8T05**	8	0.5	21.2	815
RETXHSHI8T75**	8	0.75	22.5	940
RETXHSHI8T10**	8	1	23.9	1060
RETXHSHI8T13**	8	1.3	25.5	1200
RETXHSHI8T15**	8	1.5	26.1	1280
RETXHSHI10T05**	10	0.5	24.2	990
RETXHSHI10T75**	10	0.75	25.7	1160
RETXHSHI10T10**	10	1	27.4	1300
RETXHSHI10T13**	10	1.3	29.3	1500
RETXHSHI10T15**	10	1.5	30	1570
RETXHSHI12T05**	12	0.5	24.8	1065
RETXHSHI12T75**	12	0.75	26.4	1260
RETXHSHI12T1**	12	1	28.1	1400
RETXHSHI12T13**	12	1.3	30.1	1610
RETXHSHI12T15**	12	1.5	31.1	1750

ELAND PART NO.	NO. OF TRIPLE	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RETXHSHI16T05**	16	0.5	27.4	1290
RETXHSHI16T75**	16	0.75	28.9	1500
RETXHSHI16T10**	16	1	31.1	1710
RETXHSHI16T13**	16	1.3	33.8	2180
RETXHSHI16T15**	16	1.5	35.3	2370
RETXHSHI20T05**	20	0.5	29.5	1485
RETXHSHI20T75**	20	0.75	31.7	1760
RETXHSHI20T10**	20	1	34.4	2200
RETXHSHI20T13**	20	1.3	37.5	2600
RETXHSHI20T15**	20	1.5	38.7	2740
RETXHSHI24T05**	24	0.5	33	1890
RETXHSHI24T75**	24	0.75	36	2300
RETXHSHI24T10**	24	1	38.5	2610
RETXHSHI24T13**	24	1.3	41.3	3030
RETXHSHI24T15**	24	1.5	42.6	3220

Eland Part No. shown above designate the sheath colour (). For each colour substitute * for a colour code as listed below. e.g. RETXHSHC2C05BK = 0.5mm² Black

Colour Codes

COLOUR	Black	Blue	Orange
CODE	BK	BL	OR

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
	Class 1 & 2	Class 5
0.5	36	39
0.75	24.5	26
1	18.1	18.1
1.3	13.9	-
1.5	12.1	13.3
2.5	7.41	7.98

ELECTRICAL CHARACTERISTICS

Individually and Collectively Screened Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MUTUAL CAPACITANCE pF/m				MINIMUM INSULATION RESISTANCE AT 20°C Mohms/km	MAXIMUM L/R RATIO μH/ohms
	Multi-Core	Multi-Pair	PIMF	TIMF		
0.5	100	65	100	100	5000	25
0.75	100	65	100	100	5000	25
1	100	65	100	100	5000	25
1.3	100	75	100	100	5000	40
1.5	100	75	100	100	5000	40
2.5	100	-	100	100	5000	60

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.