

RE-T2X(st)H - BS EN 50288-7 Mica XLPE / CAM / 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.). Not 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

Sheath

LSZH (Low Smoke Zero Halogen)

CABLE STANDARDS

BS EN 50288-1, BS EN 50288-7, HD 383, BS EN 50290-2,
BS EN/IEC 60332-1, BS EN/IEC 60332-3-24
BS EN 61034-2, BS EN 50267-2-3, BS EN 50267-2-1
IEC 60331-23, 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 (U₀/U)

300/500V

Operating Temperature

Fixed: -30°C to +90°C

Minimum Bending Radius

7.5 x overall diameter

Core Identification

- White and ● Black numbered
- Blue and ● Black numbered on request

Sheath Colour

- Blue ● Black ● Orange ● Red

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
RETXHC2C05**	2	0.5	5.6	45
RETXHC2C75**	2	0.75	6	50
RETXHC2C10**	2	1	6.4	58
RETXHC2C15**	2	1.5	7	70
RETXHC2C25**	2	2.5	8.5	100
RETXHC3C05**	3	0.5	5.8	50
RETXHC3C75**	3	0.75	6.2	59
RETXHC3C10**	3	1	6.7	70
RETXHC3C15**	3	1.5	7.4	91
RETXHC3C25**	3	2.5	8.8	130
RETXHC4C05**	4	0.5	6.3	58
RETXHC4C75**	4	0.75	6.6	72
RETXHC4C10**	4	1	7.2	88
RETXHC4C15**	4	1.5	8	111
RETXHC4C25**	4	2.5	9.6	163
RETXHC5C05**	5	0.5	6.9	68
RETXHC5C75**	5	0.75	7.3	87
RETXHC5C10**	5	1	7.4	98
RETXHC5C15**	5	1.5	9	137
RETXHC5C25**	5	2.5	10.6	200
RETXHC6C05**	6	0.5	7.4	78
RETXHC6C75**	6	0.75	7.9	102
RETXHC6C10**	6	1	8.7	121
RETXHC6C15**	6	1.5	9.7	165
RETXHC6C25**	6	2.5	11.7	243
RETXHC7C05**	7	0.5	7.4	84
RETXHC7C75**	7	0.75	7.9	109
RETXHC7C10**	7	1	8.7	130
RETXHC7C15**	7	1.5	9.7	179
RETXHC7C25**	7	2.5	11.7	265
RETXHC10C05**	10	0.5	9.4	115
RETXHC10C75**	10	0.75	10.1	152
RETXHC10C10**	10	1	11.1	192
RETXHC10C15**	10	1.5	12.4	253
RETXHC10C25**	10	2.5	15	374
RETXHC12C05**	12	0.5	9.6	135
RETXHC12C75**	12	0.75	10.4	173
RETXHC12C10**	12	1	11.5	220
RETXHC12C15**	12	1.5	12.8	292
RETXHC12C25**	12	2.5	15.4	433
RETXHC19C05**	19	0.5	11.5	201
RETXHC19C75**	19	0.75	12.3	260
RETXHC19C10**	19	1	13.4	322
RETXHC19C15**	19	1.5	15.1	445
RETXHC19C25**	19	2.5	18.3	665

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RETXHC24C05**	24	0.5	13.2	248
RETXHC24C75**	24	0.75	14.4	328
RETXHC24C10**	24	1	15.7	405
RETXHC24C15**	24	1.5	17.8	556
RETXHC24C25**	24	2.5	21.5	830

Collectively Screened Multi-Pair

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RETXHC1P05**	1	0.5	5.6	45
RETXHC1P75**	1	0.75	6	50
RETXHC1P10**	1	1	6.4	58
RETXHC1P13**	1	1.3	6.8	90
RETXHC1P15**	1	1.5	7	100
RETXHC2P05**	2	0.5	8.2	60
RETXHC2P75**	2	0.75	9	80
RETXHC2P10**	2	1	6.6	100
RETXHC2P13**	2	1.3	10	115
RETXHC2P15**	2	1.5	11.2	135
RETXHC4P05**	4	0.5	9.4	100
RETXHC4P75**	4	0.75	10.2	120
RETXHC4P10**	4	1	11	140
RETXHC4P13**	4	1.3	11.6	170
RETXHC4P15**	4	1.5	13.3	220
RETXHC6P05**	6	0.5	11	140
RETXHC6P75**	6	0.75	12.2	170
RETXHC6P10**	6	1	13.5	220
RETXHC6P13**	6	1.3	14.3	260
RETXHC6P15**	6	1.5	16	310
RETXHC8P05**	8	0.5	11.8	165
RETXHC8P75**	8	0.75	13.4	220
RETXHC8P10**	8	1	14.4	260
RETXHC8P13**	8	1.3	15.2	320
RETXHC8P15**	8	1.5	17	380
RETXHC10P05**	10	0.5	13.8	210
RETXHC10P75**	10	0.75	15	260
RETXHC10P10**	10	1	16.2	320
RETXHC10P13**	10	1.3	17.2	410
RETXHC10P15**	10	1.5	20	480
RETXHC12P05**	12	0.5	14.2	235
RETXHC12P75**	12	0.75	15.8	305
RETXHC12P10**	12	1	16.8	370
RETXHC12P13**	12	1.3	18.4	480
RETXHC12P15**	12	1.5	21	560
RETXHC16P05**	16	0.5	16	300
RETXHC16P75**	16	0.75	18	400
RETXHC16P10**	16	1	19.5	500

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RETXHC16P13**	16	1.3	20.8	600
RETXHC16P15**	16	1.5	24	740
RETXHC20P05**	20	0.5	18	370
RETXHC20P75**	20	0.75	20	480
RETXHC20P10**	20	1	21.5	602
RETXHC20P13**	20	1.3	23.3	780
RETXHC20P15**	20	1.5	26.5	890
RETXHC24P05**	24	0.5	19.5	430
RETXHC24P75**	24	0.75	21.5	570
RETXHC24P10**	24	1	23.5	730
RETXHC24P13**	24	1.3	25.4	890
RETXHC24P15**	24	1.5	29	1080

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
RETXHI2P05**	2	0.5	9.1	90
RETXHI2P75**	2	0.75	9.8	110
RETXHI2P10**	2	1	10.5	125
RETXHI2P13**	2	1.3	11.5	145
RETXHI2P15**	2	1.5	11.8	165
RETXHI4P05**	4	0.5	10.6	130
RETXHI4P75**	4	0.75	11.6	145
RETXHI4P10**	4	1	12.5	185
RETXHI4P13**	4	1.3	13.3	220
RETXHI4P15**	4	1.5	14.1	255
RETXHI6P05**	6	0.5	13	185
RETXHI6P75**	6	0.75	14.1	230
RETXHI6P10**	6	1	15.2	270
RETXHI6P13**	6	1.3	16.4	315
RETXHI6P15**	6	1.5	16.9	335
RETXHI8P05**	8	0.5	14.1	220
RETXHI8P75**	8	0.75	15.2	270
RETXHI8P10**	8	1	16.7	325
RETXHI8P13**	8	1.3	17.8	390
RETXHI8P15**	8	1.5	18.4	430
RETXHI10P05**	10	0.5	16.5	270
RETXHI10P75**	10	0.75	18.1	330
RETXHI10P10**	10	1	19.7	415
RETXHI10P13**	10	1.3	21.1	480
RETXHI10P15**	10	1.5	22	525
RETXHI12P05**	12	0.5	17.2	300
RETXHI12P75**	12	0.75	18.7	400
RETXHI12P10**	12	1	20.4	465
RETXHI12P13**	12	1.3	22	540
RETXHI12P15**	12	1.5	22.8	620
RETXHI16P05**	16	0.5	19.3	400
RETXHI16P75**	16	0.75	21.1	500

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RETXHI16P10**	16	1	22.8	590
RETXHI16P13**	16	1.3	24.7	740
RETXHI16P15**	16	1.5	25.6	825
RETXHI20P05**	20	0.5	21.4	475
RETXHI20P75**	20	0.75	23.5	600
RETXHI20P10**	20	1	25.6	740
RETXHI20P13**	20	1.3	25.6	950
RETXHI20P15**	20	1.5	28.7	1050
RETXHI24P05**	24	0.5	24	565
RETXHI24P75**	24	0.75	26.3	730
RETXHI24P10**	24	1	28.7	850
RETXHI24P13**	24	1.3	28.7	1050
RETXHI24P15**	24	1.5	32.1	1230

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
RETXHI2T05**	2	0.5	10.1	125
RETXHI2T75**	2	0.75	10.8	145
RETXHI2T10**	2	1	11.8 0	176
RETXHI2T13**	2	1.3	12.7	205
RETXHI2T15**	2	1.5	13	224
RETXHI4T05**	4	0.5	12	203
RETXHI4T75**	4	0.75	12.8	238
RETXHI4T10**	4	1	13.8	247
RETXHI4T13**	4	1.3	15.1	343
RETXHI4T15**	4	1.5	15.5	376
RETXHI6T05**	6	0.5	14.5	288
RETXHI6T75**	6	0.75	15.6	361
RETXHI6T10**	6	1	17.0 0	437
RETXHI6T13**	6	1.3	18.3	518
RETXHI6T15**	6	1.5	19.1	568
RETXHI8T05**	8	0.5	15.7	358
RETXHI8T75**	8	0.75	17.1	442
RETXHI8T10**	8	1	18.3	534
RETXHI8T13**	8	1.3	20.1	644
RETXHI8T15**	8	1.5	20.9	710
RETXHI10T05**	10	0.5	18.7	452
RETXHI10T75**	10	0.75	20.3	564
RETXHI10T10**	10	1	22	687
RETXHI10T13**	10	1.3	24	811
RETXHI10T15**	10	1.5	24.8	898
RETXHI12T05**	12	0.5	19.2	522
RETXHI12T75**	12	0.75	21	651
RETXHI12T10**	12	1	22.8	794
RETXHI12T13**	12	1.3	25	944
RETXHI12T15**	12	1.5	25.7	1052

ELAND PART NO.	NO. OF TRIPLE	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RETXHI16T05**	16	0.5	21.5	678
RETXHI16T75**	16	0.75	23.5	854
RETXHI16T10**	16	1	25.5	1005
RETXHI16T13**	16	1.3	28	1254
RETXHI16T15**	16	1.5	28.8	1384
RETXHI20T05**	20	0.5	24	843
RETXHI20T75**	20	0.75	26.3	1050
RETXHI20T10**	20	1	28.5	1270
RETXHI20T13**	20	1.3	31.2	1543
RETXHI20T15**	20	1.5	32.2	1700
RETXHI24T05**	24	0.5	27.5	1020
RETXHI24T75**	24	0.75	29.5	1250
RETXHI24T10**	24	1	32	1466
RETXHI24T13**	24	1.3	35	1844
RETXHI24T15**	24	1.5	36.5	2050

Eland Part No. shown above designate the sheath colour (). For each colour substitute * for a colour code as listed below. e.g. RETXHC2C05BK = 0.5mm² Black

Colour Codes

COLOUR	Black	Blue
CODE	BK	BL

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	19.5
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	-	-	-	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.