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## **EN50288-7 UN- ARMOURED LSHF INSTRUMENT**

*EN 50288-7 Unarmoured LSHF Instrumentation*



Paired LSHF instrumentation and digital signalling cables for use in public buildings and sensitive environments. Options include collective aluminium foil to prevent outside interference and individual & collective aluminium foil to prevent crosstalk between the pairs.

The EN 50288-7 standard allows for many variations including different voltage & temperature ratings, mechanical armours & fire barriers. If you cannot see the type required please call us, we will be able to help.

# Construction

**Type: RE-2Y(st)H – Collective aluminium tape screen.**

Plain annealed copper wire conductors to IEC 60228, class 1, 2 or 5, PE insulation, laid up as cores or twisted into pairs or triples, overall aluminium/polyester foil screen and 0.5mm<sup>2</sup> drain wire, LSHF sheath – black or blue.

**Type: RE-2Y(st)H-PiMF – Individual & collective aluminium tape screen.**

Plain annealed copper wire conductors to IEC 60228, class 1, 2 or 5, PE insulation, cores twisted into pairs or triples, each pair aluminium/polyester foil screen and 0.5mm<sup>2</sup> drain wire, units laid up, collective aluminium/polyester foil screen and 0.5mm<sup>2</sup> drain wire, LSHF sheath – black or blue.

**Pair Identification:** Black/white and numbered.

**Triple Identification:** Black/white/red and numbered.

# Technical Information

<b>Voltage Rating:</b>	300V
<b>Mutual Capacitance:</b>	< 150nF/km
<b>L/R Ratio:</b>	
<b>0.5mm<sup>2</sup> &amp; 0.75mm<sup>2</sup>:</b>	25 $\mu$ H/Ohm
<b>1.3mm<sup>2</sup>:</b>	40 $\mu$ H/Ohm
<b>Temperature Rating:</b>	-30°C to +70°C fixed (minimum -5°C for installation)
<b>Conductor Stranding:</b>	IEC 60228 Class 1, 2 or 5 plain copper conductors
<b>Flame Retardant:</b>	IEC 60332-1-2, IEC 60332-3-24 Cat C
<b>Smoke Emission:</b>	IEC 61034-1 & 2
<b>Halogen Emission:</b>	IEC 60754-1 & 2
<b>Manufactured To:</b>	EN 50288-7

# Specification

Part No.	Pairs x mm <sup>2</sup>	Conductor Stranding	Colour Code	Weight Kg/Km	O/D mm	Conductor Resistance Ohms/Km	Sheath Colour
<b>Collectively Screened Pairs</b>							
<b>E311O0501POH</b>	1 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	55.00	6.0	36.00	Black
<b>E311O0501P1H</b>	1 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	55.00	6.0	36.00	Blue
<b>E311O0502POH</b>	2 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	70.00	9.0	36.00	Black

<b>E311O0502P1H</b>	2 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	70.00	9.0	36.00	Blue
<b>E311O0504POH</b>	4 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	110.00	10.0	36.00	Black
<b>E311O0504P1H</b>	4 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	110.00	10.0	36.00	Blue
<b>E311O0508POH</b>	8 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	165.00	12.5	36.00	Black
<b>E311O0508P1H</b>	8 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	165.00	12.5	36.00	Blue
<b>E311O0512POH</b>	12 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	240.00	14.0	36.00	Black
<b>E311O0512P1H</b>	12 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	240.00	14.0	36.00	Blue
<b>E311O0524POH</b>	24 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	435.00	19.5	36.00	Black
<b>E311O0524P1H</b>	24 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	435.00	19.5	36.00	Blue
<b>E311O0701POH</b>	1 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	70.00	6.5	24.50	Black
<b>E311O0701P1H</b>	1 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	70.00	6.5	24.50	Blue
<b>E311O0702POH</b>	2 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	90.00	9.5	24.50	Black
<b>E311O0702P1H</b>	2 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	90.00	9.5	24.50	Blue
<b>E311O0704POH</b>	4 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	135.00	10.5	24.50	Black
<b>E311O0704P1H</b>	4 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	135.00	10.5	24.50	Blue
<b>E311O0708POH</b>	8 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	225.00	13.5	24.50	Black
<b>E311O0708P1H</b>	8 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	225.00	13.5	24.50	Blue
<b>E311O0712POH</b>	12 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	320.00	16.0	24.50	Black
<b>E311O0712P1H</b>	12 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	320.00	16.0	24.50	Blue
<b>E311O0724POH</b>	24 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	575.00	21.5	24.50	Black
<b>E311O0724P1H</b>	24 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	575.00	21.5	24.50	Blue
<b>E311O1301POH</b>	1 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	75.00	7.0	14.20	Black
<b>E311O1301P1H</b>	1 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	75.00	7.0	14.20	Blue
<b>E311O1302POH</b>	2 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	125.00	10.5	14.20	Black
<b>E311O1302P1H</b>	2 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	125.00	10.5	14.20	Blue
<b>E311O1304POH</b>	4 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	185.00	12.0	14.20	Black
<b>E311O1304P1H</b>	4 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	185.00	12.0	14.20	Blue
<b>E311O1308POH</b>	8 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	340.00	15.5	14.20	Black
<b>E311O1308P1H</b>	8 x 2 x	7/0.44	Black & White Pairs	340.00	15.5	14.20	Blue

	1.3		Numbered				
<b>E311O1312POH</b>	12 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	490.00	18.5	14.20	Black
<b>E311O1312P1H</b>	12 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	490.00	18.5	14.20	Blue
<b>E311O1324POH</b>	24 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	910.00	26.0	14.20	Black
<b>E311O1324P1H</b>	24 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	910.00	26.0	14.20	Blue
<b>Individually &amp; Collectively Screened Pairs</b>							
<b>E311I0502P0H</b>	2 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	105.00	9.5	36.00	Black
<b>E311I0502P1H</b>	2 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	105.00	9.5	36.00	Blue
<b>E311I0504P0H</b>	4 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	155.00	11.0	36.00	Black
<b>E311I0504P1H</b>	4 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	155.00	11.0	36.00	Blue
<b>E311I0508P0H</b>	8 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	240.00	13.5	36.00	Black
<b>E311I0508P1H</b>	8 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	240.00	13.5	36.00	Blue
<b>E311I0512P0H</b>	12 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	320.00	15.5	36.00	Black
<b>E311I0512P1H</b>	12 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	320.00	15.5	36.00	Blue
<b>E311I0524P0H</b>	24 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	555.00	20.0	36.00	Black
<b>E311I0524P1H</b>	24 x 2 x 0.5	7/0.30	Black & White Pairs Numbered	555.00	20.0	36.00	Blue
<b>E311I0702P0H</b>	2 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	120.00	10.0	24.50	Black
<b>E311I0702P1H</b>	2 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	120.00	10.0	24.50	Blue
<b>E311I0704P0H</b>	4 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	185.00	12.5	24.50	Black
<b>E311I0704P1H</b>	4 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	185.00	12.5	24.50	Blue
<b>E311I0708P0H</b>	8 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	305.00	16.0	24.50	Black
<b>E311I0708P1H</b>	8 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	305.00	16.0	24.50	Blue
<b>E311I0712P0H</b>	12 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	415.00	19.0	24.50	Black
<b>E311I0712P1H</b>	12 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	415.00	19.0	24.50	Blue
<b>E311I0724P0H</b>	24 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	750.00	25.0	24.50	Black
<b>E311I0724P1H</b>	24 x 2 x 0.75	7/0.37	Black & White Pairs Numbered	750.00	25.0	24.50	Blue
<b>E311I1302P0H</b>	2 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	150.00	11.0	14.20	Black
<b>E311I1302P1H</b>	2 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	150.00	11.0	14.20	Blue
<b>E311I1304P0H</b>	4 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	250.00	14.0	14.20	Black
<b>E311I1304P1H</b>	4 x 2 x	7/0.44	Black & White Pairs	250.00	14.0	14.20	Blue

	1.3		Numbered				
<b>E31111308P0H</b>	8 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	415.00	18.5	14.20	Black
<b>E31111308P1H</b>	8 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	415.00	18.5	14.20	Blue
<b>E31111312P0H</b>	12 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	580.00	21.5	14.20	Black
<b>E31111312P1H</b>	12 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	580.00	21.5	14.20	Blue
<b>E31111324P0H</b>	24 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	1,045.00	29.0	14.20	Black
<b>E31111324P1H</b>	24 x 2 x 1.3	7/0.44	Black & White Pairs Numbered	1,045.00	29.0	14.20	Blue