

## **Engineering Product Design**

Product Construction: C-Lite Multipair Overall Braid Screened, Jacketed Cables						Product Family: CL105-PO-1.50			
esigner:		Date:	Pro	duct Manage	r:		Date:	Page	
Paul Cleary		13/11	/2023 Ja	mes Rice			13/11/20	)23 1 o	
rawing for reference pur	poses only:				Control	lled Custome	er Copy:		
Components					COM	COMMERCIAL MARINE			
CL105-0121-1.50	1			PET Tape	UK				
		$\mathbf{\tilde{o}}$			Specifi	cations:			
				/		0 2300			
(					Tempe	rature rating	:		
						ed to +120°C		marine	
	X	Contraction of the second seco	$\sim$		classifi	cation rating	S.		
Jacket extruded Zeroh	al		Tinn	ed Copper Braid	4				
(See below for jacket of			I INN	ed Copper Braid	1				
	, or our of manny								
Description	Internal	Number of	Pair Lay	OD under	Nom Wall	Nom OD	Tolerance	Nom weig	
Description	Reference	Pairs	Up	jacket (mm)	(mm)	(mm)	± (mm)	(kg/km)	
			-			. ,			
CL105-1x2x1.50-PO	EPD102984A	1	1	5.0	1.0	7.0	0.4	85	
L105-2x2x1.50-PO	EPD101647A	2	2	5.8	1.0	7.8	0.5	122	
CL105-2x2x1.50-PO CL105-3x2x1.50-PO	EPD101647A EPD101648A	2 3	2 3	5.8 9.0	1.0 1.2	7.8 11.4	0.5 0.7	122 206	
CL105-2x2x1.50-PO CL105-3x2x1.50-PO CL105-4x2x1.50-PO	EPD101647A EPD101648A EPD101649A	2 3 4	2 3 4	5.8 9.0 10.0	1.0 1.2 1.2	7.8 11.4 12.4	0.5 0.7 0.8	122 206 251	
CL105-2x2x1.50-PO CL105-3x2x1.50-PO CL105-4x2x1.50-PO CL105-7x2x1.50-PO	EPD101647A EPD101648A EPD101649A EPD101650A	2 3 4 7	2 3 4 1+6	5.8 9.0 10.0 12.2	1.0 1.2 1.2 1.3	7.8 11.4 12.4 14.8	0.5 0.7 0.8 1.0	122 206 251 367	
L105-2x2x1.50-PO L105-3x2x1.50-PO L105-4x2x1.50-PO L105-7x2x1.50-PO L105-8x2x1.50-PO L105-8x2x1.50-PO	EPD101647A EPD101648A EPD101649A EPD101650A EPD109578A	2 3 4 7 8	2 3 4 1+6 2+6	5.8 9.0 10.0 12.2 13.0	1.0 1.2 1.2 1.3 1.4	7.8 11.4 12.4 14.8 15.6	0.5 0.7 0.8 1.0 1.1	122 206 251 367 431	
L105-2x2x1.50-PO L105-3x2x1.50-PO L105-4x2x1.50-PO L105-7x2x1.50-PO L105-8x2x1.50-PO L105-10x2x1.50-PO	EPD101647A EPD101648A EPD101649A EPD101650A EPD109578A EPD101651A	2 3 4 7 8 10	2 3 4 1+6 2+6 2+8	5.8 9.0 10.0 12.2 13.0 14.1	1.0 1.2 1.2 1.3 1.4 1.4	7.8 11.4 12.4 14.8 15.6 16.9	0.5 0.7 0.8 1.0 1.1 1.1	122 206 251 367 431 508	
CL105-2x2x1.50-PO CL105-3x2x1.50-PO CL105-4x2x1.50-PO CL105-7x2x1.50-PO CL105-8x2x1.50-PO L105-10x2x1.50-PO L105-12x2x1.50-PO	EPD101647A EPD101648A EPD101649A EPD101650A EPD109578A EPD101651A EPD109579A	2 3 4 7 8 10 12	2 3 4 1+6 2+6 2+8 3+9	5.8 9.0 10.0 12.2 13.0 14.1 15.6	1.0 1.2 1.2 1.3 1.4 1.4 1.5	7.8 11.4 12.4 14.8 15.6 16.9 18.4	0.5 0.7 0.8 1.0 1.1 1.1 1.3	122 206 251 367 431 508 606	
L105-2x2x1.50-PO L105-3x2x1.50-PO L105-4x2x1.50-PO L105-7x2x1.50-PO L105-8x2x1.50-PO L105-10x2x1.50-PO L105-12x2x1.50-PO L105-12x2x1.50-PO L105-14x2x1.50-PO	EPD101647A EPD101648A EPD101649A EPD101650A EPD109578A EPD101651A EPD109579A EPD102985A	2 3 4 7 8 10 12 14	2 3 4 1+6 2+6 2+8 3+9 4+10	5.8 9.0 10.0 12.2 13.0 14.1 15.6 16.7	1.0           1.2           1.3           1.4           1.5	7.8 11.4 12.4 14.8 15.6 16.9 18.4 19.7	0.5 0.7 0.8 1.0 1.1 1.1 1.3 1.3	122 206 251 367 431 508 606 703	
L105-2x2x1.50-PO L105-3x2x1.50-PO L105-4x2x1.50-PO L105-7x2x1.50-PO L105-8x2x1.50-PO L105-10x2x1.50-PO L105-12x2x1.50-PO L105-14x2x1.50-PO L105-15x2x1.50-PO L105-15x2x1.50-PO	EPD101647A EPD101648A EPD101649A EPD101650A EPD109578A EPD109579A EPD109579A EPD102985A EPD109580A	2 3 4 7 8 10 12 14 15	2 3 4 1+6 2+6 2+8 3+9 4+10 5+10	5.8 9.0 10.0 12.2 13.0 14.1 15.6 16.7 17.3	1.0           1.2           1.3           1.4           1.5           1.5	7.8 11.4 12.4 14.8 15.6 16.9 18.4 19.7 20.3	0.5 0.7 0.8 1.0 1.1 1.1 1.3 1.3 1.4	122 206 251 367 431 508 606 703 757	
L105-2x2x1.50-PO L105-3x2x1.50-PO L105-4x2x1.50-PO L105-7x2x1.50-PO L105-8x2x1.50-PO L105-10x2x1.50-PO L105-12x2x1.50-PO L105-14x2x1.50-PO L105-15x2x1.50-PO L105-15x2x1.50-PO L105-16x2x1.50-PO	EPD101647A EPD101648A EPD101649A EPD101650A EPD109578A EPD109579A EPD102985A EPD109580A EPD109581A	2 3 4 7 8 10 12 14	2 3 4 1+6 2+6 2+8 3+9 4+10	5.8 9.0 10.0 12.2 13.0 14.1 15.6 16.7	1.0           1.2           1.3           1.4           1.5	7.8 11.4 12.4 14.8 15.6 16.9 18.4 19.7	0.5 0.7 0.8 1.0 1.1 1.1 1.3 1.3	122 206 251 367 431 508 606 703	
L105-2x2x1.50-PO L105-3x2x1.50-PO L105-4x2x1.50-PO L105-7x2x1.50-PO L105-8x2x1.50-PO L105-10x2x1.50-PO L105-12x2x1.50-PO L105-14x2x1.50-PO L105-15x2x1.50-PO L105-16x2x1.50-PO L105-19x2x1.50-PO	EPD101647A EPD101648A EPD101649A EPD101650A EPD109578A EPD109579A EPD109579A EPD102985A EPD109580A EPD109581A EPD109582A	2 3 4 7 8 10 12 14 15 16 19	2 3 4 1+6 2+6 2+8 3+9 4+10 5+10 5+11	5.8 9.0 10.0 12.2 13.0 14.1 15.6 16.7 17.3 17.9	1.0           1.2           1.3           1.4           1.5           1.5           1.5           1.6	7.8 11.4 12.4 14.8 15.6 16.9 18.4 19.7 20.3 20.9	0.5 0.7 0.8 1.0 1.1 1.1 1.3 1.3 1.4 1.4	122 206 251 367 431 508 606 703 757 804	
L105-2x2x1.50-PO L105-3x2x1.50-PO L105-4x2x1.50-PO L105-7x2x1.50-PO L105-8x2x1.50-PO L105-8x2x1.50-PO L105-10x2x1.50-PO L105-14x2x1.50-PO L105-15x2x1.50-PO L105-16x2x1.50-PO L105-19x2x1.50-PO L105-24x2x1.50-PO	EPD101647A EPD101648A EPD101649A EPD101650A EPD109578A EPD109579A EPD102985A EPD109580A EPD109581A	2 3 4 7 8 10 12 14 15 16	2 3 4 1+6 2+6 2+8 3+9 4+10 5+10 5+11 1+6+12	5.8 9.0 10.0 12.2 13.0 14.1 15.6 16.7 17.3 17.9 19.2	1.0           1.2           1.3           1.4           1.5           1.5           1.5           1.6	7.8 11.4 12.4 14.8 15.6 16.9 18.4 19.7 20.3 20.9 22.4	0.5 0.7 0.8 1.0 1.1 1.1 1.3 1.3 1.4 1.4 1.4 1.5	122 206 251 367 431 508 606 703 757 804 915	
CL105-2x2x1.50-PO CL105-3x2x1.50-PO CL105-4x2x1.50-PO CL105-7x2x1.50-PO CL105-7x2x1.50-PO CL105-8x2x1.50-PO L105-10x2x1.50-PO L105-14x2x1.50-PO L105-15x2x1.50-PO L105-16x2x1.50-PO L105-19x2x1.50-PO L105-24x2x1.50-PO L105-27x2x1.50-PO	EPD101647A EPD101648A EPD101650A EPD109578A EPD109579A EPD109579A EPD102985A EPD109580A EPD109581A EPD109582A EPD102986A	2 3 4 7 8 10 12 14 15 16 19 24 27	2 3 4 1+6 2+6 2+8 3+9 4+10 5+10 5+11 1+6+12 2+8+14	5.8 9.0 10.0 12.2 13.0 14.1 15.6 16.7 17.3 17.9 19.2 21.7 22.9	$ \begin{array}{c} 1.0\\ 1.2\\ 1.2\\ 1.3\\ 1.4\\ 1.4\\ 1.5\\ 1.5\\ 1.5\\ 1.6\\ 1.6\\ 1.7\\ \end{array} $	7.8 11.4 12.4 14.8 15.6 16.9 18.4 19.7 20.3 20.9 22.4 25.1	$\begin{array}{c} 0.5 \\ 0.7 \\ 0.8 \\ 1.0 \\ 1.1 \\ 1.1 \\ 1.3 \\ 1.3 \\ 1.4 \\ 1.4 \\ 1.5 \\ 1.6 \end{array}$	122 206 251 367 431 508 606 703 757 804 915 1161	
L105-2x2x1.50-PO L105-3x2x1.50-PO L105-4x2x1.50-PO L105-7x2x1.50-PO L105-7x2x1.50-PO L105-8x2x1.50-PO L105-10x2x1.50-PO L105-14x2x1.50-PO L105-16x2x1.50-PO L105-19x2x1.50-PO L105-24x2x1.50-PO L105-27x2x1.50-PO L105-27x2x1.50-PO L105-27x2x1.50-PO L105-27x2x1.50-PO	EPD101647A EPD101648A EPD101650A EPD109578A EPD109579A EPD109579A EPD102985A EPD109580A EPD109581A EPD109582A EPD102986A EPD102986A EPD102986A	2 3 4 7 8 10 12 14 15 16 19 24	2 3 4 1+6 2+6 2+8 3+9 4+10 5+10 5+11 1+6+12 2+8+14 3+9+15	5.8 9.0 10.0 12.2 13.0 14.1 15.6 16.7 17.3 17.9 19.2 21.7	1.0           1.2           1.3           1.4           1.5           1.5           1.6           1.6           1.7	7.8 11.4 12.4 14.8 15.6 16.9 18.4 19.7 20.3 20.9 22.4 25.1 26.3	$\begin{array}{c} 0.5\\ 0.7\\ 0.8\\ 1.0\\ 1.1\\ 1.1\\ 1.3\\ 1.3\\ 1.4\\ 1.4\\ 1.5\\ 1.6\\ 1.8\\ \end{array}$	122 206 251 367 431 508 606 703 757 804 915 1161 1286	
L105-2x2x1.50-PO L105-3x2x1.50-PO L105-4x2x1.50-PO L105-7x2x1.50-PO L105-8x2x1.50-PO L105-8x2x1.50-PO L105-12x2x1.50-PO L105-15x2x1.50-PO L105-16x2x1.50-PO L105-19x2x1.50-PO L105-24x2x1.50-PO L105-27x2x1.50-PO L105-27x2x1.50-PO L105-27x2x1.50-PO L105-27x2x1.50-PO	EPD101647A EPD101648A EPD101650A EPD109578A EPD109579A EPD109579A EPD102985A EPD109580A EPD109581A EPD109582A EPD109583A EPD109583A EPD102986A EPD102986A EPD101656A	2 3 4 7 8 10 12 14 15 16 19 24 27 32 37 Light Blu First pair	2 3 4 1+6 2+6 2+8 3+9 4+10 5+10 5+11 1+6+12 2+8+14 3+9+15 5+11+16 1+6+12+18 e / White and	5.8 9.0 10.0 12.2 13.0 14.1 15.6 16.7 17.3 17.9 19.2 21.7 22.9 25.0 26.6	1.0 1.2 1.2 1.3 1.4 1.4 1.5 1.5 1.5 1.6 1.6 1.7 1.8 1.8 1.9 numbered.	7.8 11.4 12.4 14.8 15.6 16.9 18.4 19.7 20.3 20.9 22.4 25.1 26.3 28.6 30.4	$\begin{array}{c} 0.5 \\ 0.7 \\ 0.8 \\ 1.0 \\ 1.1 \\ 1.1 \\ 1.3 \\ 1.3 \\ 1.4 \\ 1.4 \\ 1.5 \\ 1.6 \\ 1.8 \\ 2.0 \\ \end{array}$	122 206 251 367 431 508 606 703 757 804 915 1161 1286 1558	
L105-2x2x1.50-PO L105-3x2x1.50-PO L105-4x2x1.50-PO L105-7x2x1.50-PO L105-8x2x1.50-PO L105-10x2x1.50-PO L105-12x2x1.50-PO L105-15x2x1.50-PO L105-16x2x1.50-PO L105-24x2x1.50-PO L105-27x2x1.50-PO L105-37x2x1.50-PO L105-37x2x1.50-PO	EPD101647A EPD101648A EPD101650A EPD109578A EPD109579A EPD109579A EPD102985A EPD109580A EPD109581A EPD109582A EPD109583A EPD109583A EPD102986A EPD102986A EPD101656A	2 3 4 7 8 10 12 14 15 16 19 24 27 32 37 Light Blu First pair	2 3 4 1+6 2+6 2+8 3+9 4+10 5+10 5+11 1+6+12 2+8+14 3+9+15 5+11+16 1+6+12+18 e / White and	5.8 9.0 10.0 12.2 13.0 14.1 15.6 16.7 17.3 17.9 19.2 21.7 22.9 25.0 26.6	1.0 1.2 1.2 1.3 1.4 1.4 1.5 1.5 1.5 1.6 1.6 1.7 1.8 1.8 1.9 numbered.	7.8 11.4 12.4 14.8 15.6 16.9 18.4 19.7 20.3 20.9 22.4 25.1 26.3 28.6 30.4	$\begin{array}{c} 0.5 \\ 0.7 \\ 0.8 \\ 1.0 \\ 1.1 \\ 1.1 \\ 1.3 \\ 1.3 \\ 1.4 \\ 1.4 \\ 1.5 \\ 1.6 \\ 1.8 \\ 2.0 \\ \end{array}$	122 206 251 367 431 508 606 703 757 804 915 1161 1286 1558	
L105-2x2x1.50-PO L105-3x2x1.50-PO L105-4x2x1.50-PO L105-7x2x1.50-PO L105-8x2x1.50-PO L105-8x2x1.50-PO L105-12x2x1.50-PO L105-15x2x1.50-PO L105-16x2x1.50-PO L105-19x2x1.50-PO L105-27x2x1.50-PO L105-27x2x1.50-PO L105-37x2x1.50-PO L105-37x2x1.50-PO	EPD101647A EPD101648A EPD101650A EPD109578A EPD109578A EPD109579A EPD109587A EPD109580A EPD109581A EPD109582A EPD109583A EPD109583A EPD109583A EPD101656A	2 3 4 7 8 10 12 14 15 16 19 24 27 32 37 Light Blu First pair 2 pairs c Jacket c colour co	2 3 4 1+6 2+6 2+8 3+9 4+10 5+11 1+6+12 2+8+14 3+9+15 5+11+16 1+6+12+18 e / White and numbered 1/ abled as a qu	5.8 9.0 10.0 12.2 13.0 14.1 15.6 16.7 17.3 17.9 19.2 21.7 22.9 25.0 26.6	1.0         1.2         1.3         1.4         1.5         1.5         1.6         1.6         1.7         1.8         1.9	7.8 11.4 12.4 14.8 15.6 16.9 18.4 19.7 20.3 20.9 22.4 25.1 26.3 28.6 30.4 5/6 etc. as shown.	0.5 0.7 0.8 1.0 1.1 1.1 1.3 1.3 1.4 1.4 1.4 1.5 1.6 1.8 2.0 2.0 2.0	122 206 251 367 431 508 606 703 757 804 915 1161 1286 1558	
	EPD101647A EPD101648A EPD101650A EPD109578A EPD109578A EPD109579A EPD109587A EPD109580A EPD109581A EPD109582A EPD109583A EPD109583A EPD109583A EPD101656A	2 3 4 7 8 10 12 14 15 16 19 24 27 32 37 Light Blu First pair 2 pairs c Jacket co colour co 6=Blue, 5	2 3 4 1+6 2+6 2+8 3+9 4+10 5+11 1+6+12 2+8+14 3+9+15 5+11+16 1+6+12+18 5+11+16 1+6+12+18 0 (1+6+12+18) (1+6+18) (1	5.8 9.0 10.0 12.2 13.0 14.1 15.6 16.7 17.3 17.9 19.2 21.7 22.9 25.0 26.6 4 sequentially n /2, second pair iad, coloured a	1.0 1.2 1.2 1.3 1.4 1.4 1.5 1.5 1.5 1.6 1.6 1.6 1.7 1.8 1.8 1.9 numbered. 3/4, third pair and numbered black, 2=Red, .50-PO-0 has	7.8 11.4 12.4 14.8 15.6 16.9 18.4 19.7 20.3 20.9 22.4 25.1 26.3 28.6 30.4 5/6 etc. as shown. cription with si 3=Orange, 5 a black jacke	0.5 0.7 0.8 1.0 1.1 1.1 1.3 1.3 1.4 1.4 1.4 1.4 1.5 1.6 1.8 2.0 2.0 2.0	122 206 251 367 431 508 606 703 757 804 915 1161 1286 1558	

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