



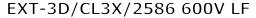
EXT-3D series

EXT-3D/CL3X/2517 300V EXT-3D/CL3X/2586 600V

UL listing support

EXT-3D/CL3X/2517 300V LF

Castification	EXT-3D LF							
Certification	UL CL3X	UL AWM	cUL AWM					
Applicable standard	UL13	UL758	CSA C22.2 No.210					
Official symbol	CL3X	UL STYLE 2517	CSA AWM II A/B					
Voltage rating	300V	300V	300V					
Temperature rating	105℃	105℃	105℃					
Conductor	UL13	UL758	CSA C22.2 No.210					
Flame rating	VW-1	VW-1	FT1					



Cartification	EXT-3D LF							
Certification	UL CL3X	UL AWM	cUL AWM					
Applicable standard	UL13	UL758	CSA C22.2 No.210					
Official symbol	CL3X	UL STYLE 2586	CSA AWM II A/B					
Voltage rating	300V	600V	600V					
Temperature rating	105℃	105℃	105℃					
Conductor	UL13	UL758	CSA C22.2 No.210					
Flame rating	VW-1	VW-1	FT1					



High Flexibility

Flexible

It supports 3D movement and is ideal for moving parts of articulated robots!!!

Bending characteristics:

U-shaped folding test 20 million times

Ouse for cableveyor and wear-resistant parts

Specification



- 1. Adoption of highly elastic TPE resin insulator
- 2. UL listing (CL3X) is added to meet NFPA requirements.
- 3. Friction resistance is small, and the smoothness of the core surface during movement is improved.
- 4. Highly elastic material prevents linear buckling during movement.
- 5. IPA certification Class 1(ISO14644-1)



Please check the back side for detailed specifications

Taiyo Cabletec Corporation

"SUN"- san Brothers

The performance described in this leaflet does not guarantee the performance in the actual usage environment.



Articulated robot cable



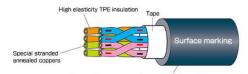
EXT-3D/CL3X/2517 300V LF

EXT-3D/CL3X/2586 600V LF



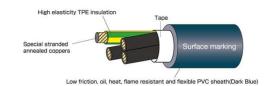






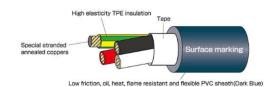
Low friction, oil, heat, flame resistant and flexible PVC sheath(Dark Blue)











> EXT-3D/CL3X/2517 300V LF

> EXT-3D/CL3X/2586 600V LF

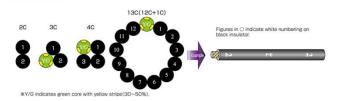
Construction table

No. of cores No. of pairs	Conductor			High elasticity TPE insulation		Low friction, oil, heat, flame resistant flexible PVC sheath		Approx.	Electrical Characteristics			Allowable				
	Size (AWG)	Construction (Line/mm)	Outside diameter (mm)	Outside diameter (inch)	Outside diameter (mm)	Overall diameter approx.(inch)	Overall diameter approx.(mm)	weight (lbs/1000ft) (kg/km)	Conductor resistance (Ω/km20°C)	Insulation resistance (MQkm20°C)	Electrical strength (V/1min.)	ampacity (A)				
1P			0.000	(III KATO	Joney	0.154	3.9	12(18)	less than 91.1	(MIZNIECO)	(47 Hillion)	5.3				
3C						0.157	4.0	15(22)	less than 89.3			4.4				
2P						0.193	4.9	19(29)	1035 9 68 1 00.0			4.2				
3P						0.217	5.5	25(37)				3.6				
4P	24	41/0.08	0.59		2.22	0.236	6.0	30(45)				3.2				
5P	(0.204ml)		(23mil)	0.039	0.99	0.252	6.4	37(55)		more than 100	2000	3.0				
7P	(O.L.O IIII)	CityOcking	(2011111)			0.295	7.5	47(70)	less than 91.1			2.7				
8P						0.315	8.0	50(75)				2.6				
10P						0.370	9.4	71(105)				2.5				
12P						0.413	10.5	84(125)				2.4				
1P						0.165	4.2	15(22)	less than 57.6			6.9				
3C						0.173	4.4	19(28)	less than 56.5			5.8				
2P						0.213	5.4	26(38)				5.5				
3P						0.240	6.1	32(48)				4.8				
4P	22	65/0.08	0.75		112	0.260	6.6	37(55)				4.3				
5P	(0.324mm)		(30mil)	0.045	1.15	0.283	7.2	47(70)	0 00 200	more than 100	2000	4.0				
7P	(0.02 100)	(OO) O.E.IIII)	(0011111)			0.346	8.8	67(100)	less than 57.6			3.6				
8P						0.370	9.4	74(110)				3.5				
10P						0.417	10.6	94(140)				3.3				
12P						0.472	12.0	104(155)				3.2				
1P						0.181	4.6	19(29)	less than 35.7			9.2				
3C						0.189	4.8	24(35)	less than 35.0			7.8				
2P						0.240	6.1	34(50)				7.4				
3P						0.272	6.9	44(65)				6.4				
4P	20	108/0.08	0.96			0.295	7.5	54(80)				5.8				
5P	(0.518ml)	(108/3.2mil)				(38mil)		0.054	1.36	0.335	8.5	71(105)	less than 35.7	more than 100 2	2000	5.4
7P	(010 10 000)	(100.02)	(0011111)			0.390	9.9	94(140)				4.9				
8P						0.421	10.7	108(160)				4.7				
10P						0.484	12.3	138(205)				4.4				
12P						0.547	13.9	168(250)				4.2				
2C						0.224	5.7	30(44)				12				
3C						0.236	6.0	37(55)				12				
4C						0.256	6.5	44(65)				11				
7C				1.31 (52mil) 0.075	1.91	0.339	8.6	77(115)		more than 100	2000	8.8				
9C	-(0.823mm)					0.386	9.8	101(150)				8.1				
11C						0.441	11.2	124(185)				7.6				
13C						0.488	12.4	151(225)				7.3				
3C	40	000 10 00	404			0.264	6.7	50(75)				17				
4C	16	266/0.08	1.64	0.088	2.24	0.287	7.3	64(95)	less than 13.9	more than 100	2000	14				
7C	(1.30mm)	(266/3.2mil)	(65mil)	0.000	tarta 4	0.382	9.7	108(160)				11				
3C	14	420/0.08	2.07	0.400	0.77	0.311	7.9	71(105)				23				
4C		(420/3.2mil)		0.109	2.77	0.354	9.0	94(140)	less than 8.77	more than 100	2000	20				

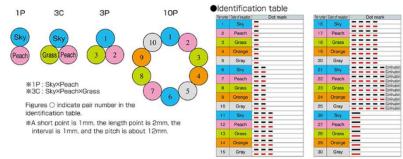
No. of cores	Conductor			High elasticity TPE insulation		Low friction, oil, heat, flame resistant flexible PVC sheath		Approx. weight	Electrical Characteristics			Allowable
	Size (AWG)	Construction (Line/mm)	Outside diameter (mm)	Outside diameter (inch)	Outside diameter (mm)	Overall diameter approx.(inch)	Overall diameter approx.(mm)	(lbs/1000ft) (kg/km)	Conductor resistance (Ω/km20°C)	Insulation resistance (MQkm20°C)	Electrical strength (V/1min.)	ampacity (A)
2C				- Annaham		0.224	5.7	30(44)	***************************************		-	12
2C 3C 4C 6C+1C						0.236	6.0	37(55)				12
4C						0.256	6.5	44(65)				11
6C+1C	18	168/0.08	1.31	0.075	1.91	0.354	9.0	94(140)	less than 22.3	more than 100	2000	9.0 8.2 7.7
8C+1C	(0.823ml)	(168/3.2mil)	(52mil)			0.402	10.2	118(175)				8.2
10C+1C						0.453	11.5	141(210)				7.7
12C+1C						0.500	12.7	165(245)				7.3
2C 3C						0.252	6.4	40(60)				17
3C						0.264	6.7	50(75)				17
4C	16	266/0.08	1.64	0.088	2.24	0.287	7.3	64(95)	loss than 120	more than 100	2000	14
6C+1C	(1.30ml)	(266/3.2mil)	(65mil)	0.000	2.24	0.394	10.0	114(170)	1035 1101 110.0	mine han 100	2000	11
10C+1C						0.508	12.9	178(265)				10
12C+1C						0.571	14.5	218(325)				9.8
2C 3C 4C						0.291	7.4	54(80)				9.8 23 23 20
3C	14 420/0.08 (2.08ml) (420/3.2mil)			0.109	2.77	0.311	7.9	71(105)	loce than 8.77	more than 100	2000	23
4C			0.109	dert I	0.354	9.0	94(140)	1000 11 011 011 1	100 Edi 100	2000	20	
6C+1C						0.461	11.7	161(240)				16

3.4 core has the [Y/G] earth cable of an equal size

#The test of 2000V/5 minute besides the withstand voltage test on above mentioned UL standard and the CSA standard is applied







Example of pare





The 1st and 2nd core of the insulator is same color. The 1st core is black and the 2nd core is red.



