

HYPERSOFT (HPF) #300 LF

- Heat resistance ★★
 - Oil resistance ★★★★★
 - Noise resistance ★
 - Flame resistance ★★★★★
 - Flexibility ★★★★★
 - non-migratory ★★★★★
 - Transport property ★★
- ※The characteristic is an aim.

Oil&Heat resistance and flexible code

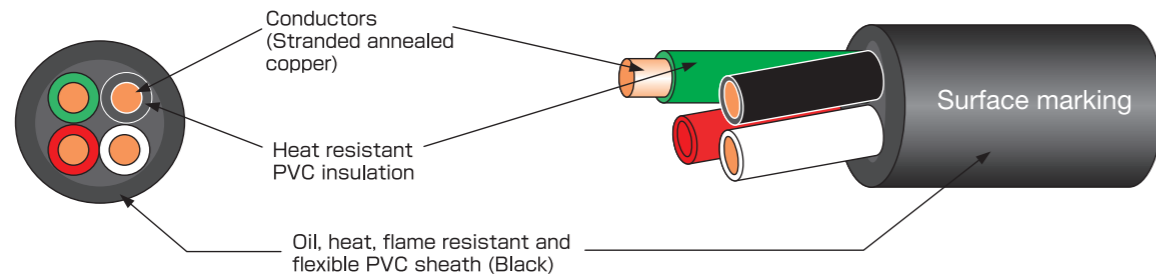
➤ Application

- Wiring such as the machine tools where the oil is scattered at a high temperature
- Rated voltage:300V.Temp:75°C(ability 90 °C)

➤ Feature

- Heat resistant PVC used for insulation.
- Oil, heat, flame resistant and soft PVC for sheath.

➤ Construction figure



➤ Surface marking

(1) 0.3~0.5mm² cables



(2) 0.75~2mm² cables

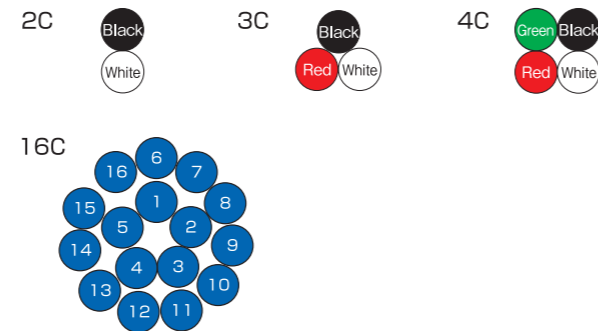


<PS>E	Indication that was passed to Electrical Appliance and Material Safety Act in Japan (The mark is indicated for conductor size is 1.75 mm and over)
LFV	Abbreviated name: Lead Free Vinyl
-F-	Passing to vertical flame test from CMJ registration system

※Cables with more than 5 cores : binder tape on cores.

➤ Identification

Cores are 12 and under	Color distinction (Black, White, Red, Green, Yellow, Brown, Blue, Gray, Orange, SkyBlue, Pink, BlightGreen)
Cores are 13 and over	Numbering(1,2,3,...) on 「Blue」 insulation



Figures in ○ indicate white numbering on blue insulator.

➤ Standard sales length

100m or 500m
(Sales by short length is available for large sizes. Please contact us which sizes are available.)

➤➤➤ Meeting standard

Certification	Electrical Appliance and Material Safety	CMJ registration
Applicable standard	Law/Departmental order to determine a technical standard of the electrical equipment	F mark
Official symbol	HVCTF	
Voltage rating	300V	
Temperature rating	75°C	
Conductor	JIS C 3102	
Flame rating	JIS C 3005-4.26.2-b)	



➤ Construction table

No. of cores	Conductor			PVC insulation		PVC sheath		Approx. weight (lbs/1000ft) (kg/km)	Electrical Characteristics			Allowable ampacity (A)
	Size (AWG) (mm ²)	Construction (Line/mm)	Outside diameter (mm)	Outside diameter (inch)	Outside diameter (mm)	Overall diameter approx. (inch)	Overall diameter approx. (mm)		Conductor resistance (Ω/km20°C)	Insulation resistance (MΩkm20°C)	Electrical strength (V/1min.)	
2C						0.181	4.6	20(30)				
3C						0.189	4.8	24(35)				4
4C						0.205	5.2	27(40)				
5C						0.232	5.9	30(45)				
6C						0.248	6.3	37(55)				
7C	0.3	12/0.18 (12/7.1mil)	0.7 (28mil)	0.059	1.5	0.268	6.8	40(60)	62.9			
8C						0.283	7.2	47(70)				
10C						0.307	7.8	50(75)				3
12C						0.323	8.2	60(90)				
16C						0.358	9.1	81(120)				
20C						0.394	10.0	97(145)				2
30C						0.465	11.8	138(205)				
2C						0.228	5.8	30(45)				
3C						0.240	6.1	37(55)				6
4C						0.260	6.6	44(65)				
5C						0.287	7.3	47(70)				
6C						0.311	7.9	57(85)				
7C	0.5	20/0.18 (20/7.1mil)	0.9 (35mil)	0.075	1.9	0.335	8.5	64(95)	37.8			5
8C						0.358	9.1	74(110)				
10C						0.386	9.8	81(120)				
12C						0.398	10.1	91(135)				4
16C						0.437	11.1	124(185)				
20C						0.484	12.3	155(230)				3
30C						0.575	14.6	215(320)				
2C						0.260	6.6	40(60)				
3C						0.276	7.0	50(75)				8
4C						0.299	7.6	60(90)				
5C						0.331	8.4	64(95)				
6C						0.358	9.1	77(115)				7
7C	0.75	30/0.18 (30/7.1mil)	1.1 (43mil)	0.091	2.3	0.386	9.8	91(135)	25.1	5	under water AC2000	6
8C						0.413	10.5	104(155)				
10C						0.449	11.4	114(170)				
12C						0.465	11.8	131(195)				5
16C						0.512	13.0	178(265)				
20C						0.575	14.6	225(335)				4
30C						0.685	17.4	319(475)				
2C						0.291	7.4	54(80)				
3C						0.307	7.8	64(95)				14
4C						0.335	8.5	81(120)				
5C						0.374	9.5	87(130)				11
6C						0.406	10.3	104(155)				10
7C	1.25	50/0.18 (50/7.1mil)	1.5 (59mil)	0.106	2.7	0.437	11.1	124(185)	15.1			9
8C						0.472	12.0	141(210)				
10C						0.512	13.0	161(240)				8
12C						0.535	13.6	188(280)				
16C						0.594	15.1	255(380)				7
20C						0.665	16.9	322(480)				6
30C						0.791	20.1	460(685)				5
2C						0.315	8.0	67(100)				
3C						0.335	8.5	84(125)				20
4C						0.362	9.2	104(155)				
5C						0.406	10.3	114(170)				14
6C						0.441	11.2	138(205)				13
7C	2	37/0.26 (37/10.2mil)	1.8 (71mil)	0.118	3.0	0.476	12.1	161(240)	9.79			12
8C						0.512	13.0	188(280)				
10C						0.567	14.4	215(320)				11
12C						0.587	14.9	252(375)				10
16C						0.657	16.7	349(520)				9
20C						0.728	18.5	433(645)				8
30C						0.866	22.0	628(935)				7

➤ Allowable ampacity

- The allowable ampacity of this catalog is a value at one in the air construction and the ambient temperature 30°C.
- Allowable ampacity is calculated based on JCS0168.
- Please multiply the following correction coefficient by the ambient temperature.

● Adjustment factors (at ambient temperature)

Ambient temperature (°C)	30	40	50	60	70
Adjustment factors	1.00	0.88	0.75	0.58	0.33