

FR-6387 MC Control



- Application range
 - Specially designed to be used for wiring applications in critical life safety system in public and industrial buildings such as airports, hotels, hospitals, subways, train stations, etc.
 - In building management systems, emergency lighting, standby power supplies, lifts and elevators
 - Plant engineering and construction, industrial machinery, power station
- Product features
 - Suitable for continuous operation at a max. conductor temperature of 90 deg.C
 - Flame retardant acc. to IEC 60332-1-2 and IEC 60332-3-22
 - Halogen free acc. to IEC 60754-1
 - Acid and corrosive gases acc. to IEC 60754-2
 - Smoke density test acc. to IEC 61034
- Product Make-up
 - Stranded plain annealed copper wire
 - Mica based fire resistance tape
 - XLPE compound insulation
 - Polyester tape wrapping
 - LSHF outer sheath - flame retardant
 - Colour: orange

CE

Approvals (Norm references)

- Fire test certified and approved to BS 6387 Cat. CWZ
- Conforms to SS 299 PLS Class IA
- *BOMBA approval pending
- Flame retardant certified & approved to IEC 60332-3-21

Technical data

Core identification code
 Colour coded cores
 3 core - red, black, blue
 4 core - red, yellow, blue, black
 5 core - red, yellow, blue, black, green

Specific insulation resistance
 > 1000 MOhm x km

Conductor stranding
 acc. to IEC 60287 / BS 6346 Cl. 2

Minimum bending radius
 Fixed installation: 10 x cable diameter

Rated voltage
 U_i/U₀: 300/500 V

Test voltage
 2000 V

Range of temperature
 -15°C to +85°C

Reference standards
 In acc. to BS 6387/1994, SS 299 PLS, I1998, IEC 60331, IEC 60228, IEC 60332-1-2, IEC 60332-3-22, IEC 60754, IEC 61034

CERTIFICATE OF CONFORMITY

Product Listing Scheme "F", Class 1A

This Certificate is issued to
JJ-LAPP Cable Sdn Bhd
 11, Jalan Lapp Cable Sdn Bhd,
 Kajang, Selangor, Malaysia 43150
 Indonesia

FOR

Product: Fire Resistant Control Cable
Brand: LAPP KABEL
Model: FR-6387 MC CONTROL
Country of Origin: Indonesia

Product Details:
 Voltage: 300/500V, Outer sheath: Low smoke halogen free (LSHF),
 Flame Type: Polyester tape, Insulation: Cross-linked polyethylene (XLPE),
 Size: 2 x 1.5 to 12 x 1.5 mm

which has complied with the requirements of the scheme and based on the following:
Standards(s):
 BS 6387: 1994
 IEC 60332-1-2
 IEC 60332-3-22
 IEC 60754-1

Test Report(s):
 7191011736-IEC108
 8006EC01338-FH-IEC108
 8006EC01338-FH-IEC108

Signature: [Signature]
Date of Issue: 26/05/2014
Valid Until: 26/05/2016

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Test Report(s):
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 8006EC01338-FH-IEC108
 8006EC01338-FH-IEC108

Signature: [Signature]
Date of Issue: 13/09/2014
Valid Until: 13/09/2016

Part No.	Conductor cross-section mm²	Approx. Cable OD mm	Core Colour	Copper index kg/km	Approx. Cable wt. kg/km
3806560	2 x 1	7.9	BK/RD	19.2	69
3806561	2 x 1	7.9	BK/WH	19.2	69
3806562	2 x 1	7.9	BU/BN	19.2	69
3806563	3 x 1	8.8	BN/BK/GY	28.8	88
3806564	4 x 1	9.6	BU/BN/BK/GY	38.4	110
3806565	5 x 1	10.5	GN/YE/BU/BN/BK/GY	48	136
3806566	7 x 1	11.5	WH #	67.2	170
3806567	8 x 1	13.0	WH #	76.8	199
3806568	10 x 1	14.8	WH #	96	255
3806569	12 x 1	15.3	WH #	115.2	281
3806570	14 x 1	16.2	WH #	134.4	321
3806571	16 x 1	17.1	WH #	153.6	367
3806572	19 x 1	18.1	WH #	182.4	420
3806573	24 x 1	21.4	WH #	230.4	545
3806574	27 x 1	21.9	WH #	259.2	588
3806575	30 x 1	22.7	WH #	288	663
3806576	33 x 1	23.7	WH #	316.8	706
3806577	37 x 1	24.7	WH #	355.2	782
3806578	61 x 1	31.3	WH #	585.6	1257
3806580	2 x 1.5	8.5	BK/RD	28.8	88
3806581	2 x 1.5	8.5	BK/WH	28.8	88
3806582	2 x 1.5	8.5	BU/BN	28.8	88
3806583	3 x 1.5	9.9	BN/BK/GY	43.2	115
3806584	4 x 1.5	10.9	BU/BN/BK/GY	57.6	147
3806585	5 x 1.5	12.0	GN/YE/BU/BN/BK/GY	72	182
3806586	7 x 1.5	13.1	WH #	100.8	230
3806587	8 x 1.5	14.8	WH #	115.2	268
3806588	10 x 1.5	17.0	WH #	144	346
3806589	12 x 1.5	17.6	WH #	172.8	383
3806590	14 x 1.5	18.5	WH #	201.6	438
3806591	16 x 1.5	19.6	WH #	230.4	502
3806592	19 x 1.5	20.8	WH #	273.6	576
3806593	24 x 1.5	24.6	WH #	345.6	749
3806594	27 x 1.5	25.2	WH #	388.8	810
3806595	30 x 1.5	26.2	WH #	432	913
3806596	33 x 1.5	27.3	WH #	475.2	974
3806597	37 x 1.5	28.5	WH #	532.8	1081
3806598	61 x 1.5	36.1	WH #	878.4	1746
3806600	2 x 2.5	10.5	BK/RD	48	118
3806601	2 x 2.5	10.5	BK/WH	48	118
3806602	2 x 2.5	10.5	BU/BN	48	118
3806603	3 x 2.5	11.2	BN/BK/GY	72	157
3806604	4 x 2.5	12.3	BU/BN/BK/GY	96	203
3806605	5 x 2.5	13.5	GN/YE/BU/BN/BK/GY	120	253
3806606	7 x 2.5	14.9	WH #	168	322
3806607	8 x 2.5	16.9	WH #	192	376
3806608	10 x 2.5	19.3	WH #	240	485
3806609	12 x 2.5	20.0	WH #	288	541
3806610	14 x 2.5	21.1	WH #	336	621
3806611	16 x 2.5	22.4	WH #	384	713
3806612	19 x 2.5	23.7	WH #	456	821
3806613	24 x 2.5	28.1	WH #	576	1066
3806614	27 x 2.5	28.8	WH #	648	1158
3806615	30 x 2.5	29.9	WH #	720	1305
3806616	33 x 2.5	31.2	WH #	792	1396
3806617	37 x 2.5	32.5	WH #	888	1552
3806618	61 x 2.5	41.4	WH #	1464	2517



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 - Suitable for continuous operation at a max. conductor temperature of 90 degC
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 - Acid and corrosive gases acc. to IEC 60754-2
 - Smoke density test acc. to IEC 61034
- Approvals (Norm references)
 - CE
 - Fire test certified and approved to BS 6387 Cat. CWZ
 - Conforms to SS 299 PLS Class 1A
 - Product Make-up
 - Stranded plain annealed copper wire
 - Mica based fire resistance tape
 - XLPE compound insulation
 - Cores twisted into pair / cores shall be lay concentrically
 - Polyester tape wrapping
 - Aluminium/mylar tape shielding in contact with drain wire
 - LSHF outer sheath - flame retardant
 - Colour: orange

Info

- Fire test certified and approved to BS 6387 Cat. CWZ
- Conforms to SS 299 PLS Class 1A
- Twisted Pair core, 300/500 V

Technical data

- Core identification code
red, black
- Specific insulation resistance
> 10 MOhm x km
- Conductor stranding
acc. to IEC 60287 / BS 6340 Cl 2
- Minimum bending radius
Fixed installation: 10 x cable diameter
- Rated voltage
U₀/U: 300/500 V
- Test voltage
2000 V
- Range of temperature
-15 °C to +85 °C
- Reference standards
In acc. to BS 3871/1994, SS 299 Part 1/1998, IEC 60331, BS 5308, IEC 60288, IEC 60332-1-2, IEC 60332-3-22, IEC 60754, IEC 61034



Part No.	Conductor cross-section mm ²	Approx. Cable OD mm	Core Colour	Copper index kg/ km	Approx. Cable wt. kg/ km
3805860	1 x 2 x 1	8.0	Black/ Red	24	75
3805861	1 x 2 x 1	8.0	Blue/ Brown	24	75
3805862	2 x 2 x 1	11.4	White/ Black with number	43.2	132
3805863	3 x 2 x 1	13.0	White/ Black with number	62.4	172
3805864	4 x 2 x 1	14.8	White/ Black with number	81.6	218
3805865	6 x 2 x 1	17.8	White/ Black with number	120	310
3805866	8 x 2 x 1	20.3	White/ Black with number	158.4	406
3805867	10 x 2 x 1	22.5	White/ Black with number	196.8	492
3805868	12 x 2 x 1	24.5	White/ Black with number	253.2	574
3805869	15 x 2 x 1	27.2	White/ Black with number	292.8	711
3805870	20 x 2 x 1	31.1	White/ Black with number	388.8	925
3805871	24 x 2 x 1	34.0	White/ Black with number	465.6	1094
3805872	30 x 2 x 1	37.8	White/ Black with number	580.8	1342
3805873	36 x 2 x 1	41.2	White/ Black with number	696	1599
3805880	1 x 2 x 1.5	8.6	Black/ Red	33.6	89
3805881	1 x 2 x 1.5	8.6	Blue/ Brown	33.6	89
3805882	2 x 2 x 1.5	12.3	White/ Black with number	62.4	163
3805883	3 x 2 x 1.5	14.2	White/ Black with number	91.2	216
3805884	4 x 2 x 1.5	16.1	White/ Black with number	120	277
3805885	6 x 2 x 1.5	19.4	White/ Black with number	177.6	396
3805886	8 x 2 x 1.5	22.1	White/ Black with number	235.2	520
3805887	10 x 2 x 1.5	24.6	White/ Black with number	292.8	634
3805888	12 x 2 x 1.5	26.8	White/ Black with number	350.4	743
3805889	15 x 2 x 1.5	29.7	White/ Black with number	436.8	921
3805890	20 x 2 x 1.5	34.1	White/ Black with number	580.8	1203
3805891	24 x 2 x 1.5	37.2	White/ Black with number	696	1426
3805892	30 x 2 x 1.5	41.4	White/ Black with number	868.8	1756
3805893	36 x 2 x 1.5	45.2	White/ Black with number	1041.6	2094

Part No.	Conductor cross-section mm ²	Approx. Cable OD mm	Core Colour	Copper index kg/ km	Approx. Cable wt. kg/ km
3805900	1 x 2 x 2.5	10.3	Black/ Red	52.8	123
3805901	1 x 2 x 2.5	10.3	Blue/ Brown	52.8	123
3805902	2 x 2 x 2.5	14.7	White/ Black with number	100.8	231
3805903	3 x 2 x 2.5	17.0	White/ Black with number	148.8	314
3805904	4 x 2 x 2.5	19.4	White/ Black with number	196.8	405
3805905	6 x 2 x 2.5	23.4	White/ Black with number	292.8	585
3805906	8 x 2 x 2.5	26.8	White/ Black with number	388.8	768
3805907	10 x 2 x 2.5	29.7	White/ Black with number	484.8	942
3805908	12 x 2 x 2.5	32.4	White/ Black with number	580.8	1111
3805909	15 x 2 x 2.5	36.1	White/ Black with number	724.8	1378
3805910	20 x 2 x 2.5	41.4	White/ Black with number	964.8	1809
3805911	24 x 2 x 2.5	45.2	White/ Black with number	1156.8	2150
3805912	30 x 2 x 2.5	50.3	White/ Black with number	1444.8	2656
3805913	36 x 2 x 2.5	55.0	White/ Black with number	1732.8	3171
3805921	2 x 1	8.0	Black/ Red	24	75
3805922	2 x 1	8.0	Blue/ Brown	24	75
3805923	3 x 1	8.6	White with number	33.6	93
3805924	4 x 1	9.4	White with number	43.2	113
3805925	5 x 1	10.3	White with number	52.8	140
3805926	7 x 1	11.3	White with number	72	175
3805927	8 x 1	12.8	White with number	81.6	204
3805928	10 x 1	14.5	White with number	100.8	253
3805929	12 x 1	15.1	White with number	120	285
3805930	14 x 1	15.9	White with number	139.2	324
3805931	16 x 1	16.8	White with number	158.4	370
3805932	19 x 1	17.8	White with number	187.2	422
3805933	24 x 1	21.0	White with number	235.2	540
3805934	27 x 1	21.5	White with number	264	589
3805935	30 x 1	22.4	White with number	292.8	646
3805936	33 x 1	23.3	White with number	321.6	710
3805937	37 x 1	24.3	White with number	360	780
3805938	61 x 1	30.7	White with number	590.4	1250
3805941	2 x 1.5	8.6	Black/ Red	33.6	89
3805942	2 x 1.5	8.6	Blue/ Brown	33.6	89
3805943	3 x 1.5	9.3	White with number	48	114
3805944	4 x 1.5	10.2	White with number	62.4	142
3805945	5 x 1.5	11.2	White with number	76.8	177
3805946	7 x 1.5	12.3	White with number	105.6	223
3805947	8 x 1.5	13.9	White with number	120	260
3805948	10 x 1.5	15.8	White with number	148.8	323
3805949	12 x 1.5	16.4	White with number	177.6	367
3805950	14 x 1.5	17.3	White with number	206.4	419
3805951	16 x 1.5	18.3	White with number	235.2	479
3805952	19 x 1.5	19.4	White with number	278.4	549
3805953	24 x 1.5	23.0	White with number	350.4	697
3805954	27 x 1.5	23.5	White with number	393.6	769
3805955	30 x 1.5	24.4	White with number	436.8	846
3805956	33 x 1.5	25.5	White with number	480	930
3805957	37 x 1.5	26.5	White with number	537.6	1025
3805958	61 x 1.5	33.7	White with number	883.2	1650
3805961	2 x 2.5	10.3	Black/ Red	52.8	123
3805962	2 x 2.5	10.3	Blue/ Brown	52.8	123
3805963	3 x 2.5	11.0	White with number	76.8	162
3805964	4 x 2.5	12.1	White with number	100.8	204
3805965	5 x 2.5	13.4	White with number	124.8	257
3805966	7 x 2.5	14.7	White with number	172.8	327
3805967	8 x 2.5	16.6	White with number	196.8	381
3805968	10 x 2.5	19.0	White with number	244.8	474
3805969	12 x 2.5	19.7	White with number	292.8	545
3805970	14 x 2.5	20.8	White with number	340.8	624
3805971	16 x 2.5	22.1	White with number	388.8	715
3805972	19 x 2.5	23.4	White with number	460.8	823
3805973	24 x 2.5	27.8	White with number	580.8	1051
3805974	27 x 2.5	28.4	White with number	652.8	1158
3805975	30 x 2.5	29.6	White with number	724.8	1275
3805976	33 x 2.5	30.8	White with number	796.8	1403
3805977	37 x 2.5	32.1	White with number	892.8	1549
3805978	61 x 2.5	40.8	White with number	1468.8	2506