



Type: CJ86/SC-VFD  
CJ85/SC-VFD

### Standards applied

Design : IEC 60092-350、353  
 Conductor : IEC 60228  
 Insulation & sheath : IEC 60092-360  
 Flame Retardant : IEC 60332-1  
 Flame Retardant : IEC 60332-3-22  
 Halogen content : IEC60754  
 Smoke emission : IEC 61034  
 Fluorine content : IEC60684-2  
 Max.rated conductor temperature: 90°C

### Application

The cable is intended for power lighting and control system of shipboard and off-shore building such as oil platform. It is also available to metallurgical industry, chemical works, power plant and corporation mining etc.

### Construction

Components	Code	Material/description
Series code	C	Shipboard power cable
	VFD	VFD Cable
Conductor		Stranded tinned annealed copper, IEC 60228 Class 5
Insulation	J	XLPE, IEC 60092-360
Cabling		Flame retardant & non-hygroscopic fillers may be used
		Suitable tape(s) may be applied on the cabled core
Collective screen		CU/PS tape with tinned copper drain wire
Aarmor	8	Tinned copper wire braid (TCWB)
Outer sheath	6	Halogen-free flame retardant thermoplastic compound (SHF1)
	5	Halogen-free flame retardant thermoset compound (SHF2)
Flammability	SC	LSHF Flame retardant



## CABLE TYPE: CJ86/SC-VFD ,CJ85/SC-VFD 0.6/1 KV

No. of cores	Conductor			Thickness of Insulation	Dia. of wire for armour	Thickness of sheath	Overall diameter		Approx. weight
	Nominal Area	Number of wires	Nom. Dia.				Nominal	Tol.	
No.	mm <sup>2</sup>	ea.	mm	mm	mm	mm	mm	±mm	kg/km
3	16	126/0.4	5.7	0.7	0.3	1.5	20.8	1.0	860
3	25	196/0.4	7.1	0.9	0.3	1.7	25.1	1.3	1250
3	35	276/0.4	8.7	0.9	0.3	1.8	28.6	1.4	1640
3	50	396/0.4	10.5	1.0	0.3	2.0	33.3	1.7	2250
3	70	361/0.5	12.3	1.1	0.4	2.2	38.7	1.9	3150
3	95	475/0.5	13.9	1.1	0.4	2.3	42.4	2.1	3940
3	120	608/0.5	15.4	1.2	0.4	2.4	46.3	2.3	4860
3	150	756/0.5	17.3	1.4	0.4	2.6	51.6	2.6	5980
3	185	925/0.5	19.8	1.6	0.4	2.9	58.8	2.9	7370
3	240	1221/0.5	22.2	1.7	0.4	3.1	64.8	3.0	9380
3C	16	126/0.4	5.7	0.7	0.3	1.6	22.2	1.1	1050
3E	6	84/0.3	3.5	0.7	0.3	1.7	26.6	1.3	1440
3C	25	196/0.4	7.1	0.9	0.3	1.7	26.6	1.3	1440
3E	6	84/0.3	3.5	0.7	0.3	1.8	28.7	1.4	1800
3C	35	276/0.4	8.7	0.9	0.3	1.8	28.7	1.4	1800
3E	6	84/0.3	3.5	0.7	0.3	2.0	33.4	1.7	2520
3C	50	396/0.4	10.5	1.0	0.3	2.0	33.4	1.7	2520
3E	10	84/0.4	4.7	0.7	0.4	2.2	38.8	1.9	3560
3C	70	361/0.5	12.3	1.1	0.4	2.2	38.8	1.9	3560
3E	16	126/0.4	5.7	0.7	0.4	2.3	42.5	2.1	4350
3C	95	475/0.5	13.9	1.1	0.4	2.3	42.5	2.1	4350
3E	16	126/0.4	5.7	0.7	0.4	2.5	47.0	2.4	5530
3C	120	608/0.5	15.4	1.2	0.4	2.5	47.0	2.4	5530
3E	25	196/0.4	7.1	0.9	0.4	2.6	51.7	2.6	6620
3C	150	756/0.5	17.3	1.4	0.4	2.6	51.7	2.6	6620
3E	25	196/0.4	7.1	0.9	0.4	2.9	58.8	2.9	8260
3C	185	925/0.5	19.8	1.6	0.4	2.9	58.8	2.9	8260
3E	35	276/0.4	8.7	0.9	0.4	3.1	64.8	3.0	10640
3C	240	1221/0.5	22.2	1.7	0.4	3.1	64.8	3.0	10640
3E	50	396/0.4	10.5	1.0					

## CABLE TYPE: CJ86/SC-VFD ,CJ85/SC-VFD 1.8/3 KV

No. of cores	Conductor			Thickness of Insulation	Dia. of wire for armour	Thickness of sheath	Overall diameter		Approx. weight
	Nominal Area	Number of wires	Nom. Dia.				Nominal	Tol.	
No.	mm <sup>2</sup>	ea.	mm	mm	mm	mm	mm	±mm	kg/km
3	16	126/0.4	5.7	2.0	0.3	1.7	27.1	1.4	1150
3	25	196/0.4	7.1	2.0	0.3	1.9	30.5	1.5	1530
3	35	276/0.4	8.7	2.0	0.3	2.0	34.0	1.7	1960
3	50	396/0.4	10.5	2.0	0.4	2.2	39.0	2.0	2690
3	70	361/0.5	12.3	2.0	0.4	2.3	43.0	2.2	3470
3	95	475/0.5	13.9	2.0	0.4	2.5	46.9	2.3	4310
3	120	608/0.5	15.4	2.0	0.4	2.6	50.3	2.5	5220
3	150	756/0.5	17.3	2.0	0.4	2.8	54.9	2.7	6300
3	185	925/0.5	19.8	2.0	0.4	3.0	60.7	3.0	7580
3	240	1221/0.5	22.2	2.0	0.4	3.2	66.3	3.0	9560
3C	16	126/0.4	5.7	2.0	0.3	1.7	27.1	1.4	1310
3E	6	84/0.3	3.5	0.7	0.3	1.9	30.5	1.5	1690
3C	25	196/0.4	7.1	2.0	0.3	1.9	30.5	1.5	1690
3E	6	84/0.3	3.5	0.7	0.3	2.0	34.0	1.7	2120
3C	35	276/0.4	8.7	2.0	0.3	2.0	34.0	1.7	2120
3E	6	84/0.3	3.5	0.7	0.4	2.2	39.0	2.0	2960
3C	50	396/0.4	10.5	2.0	0.4	2.2	39.0	2.0	2960
3E	10	84/0.4	4.7	0.7	0.4	2.3	43.0	2.2	3880
3C	70	361/0.5	12.3	2.0	0.4	2.3	43.0	2.2	3880
3E	16	126/0.4	5.7	0.7	0.4	2.5	46.9	2.3	4720
3C	95	475/0.5	13.9	2.0	0.4	2.5	46.9	2.3	4720
3E	16	126/0.4	5.7	0.7	0.4	2.6	50.3	2.5	5860
3C	120	608/0.5	15.4	2.0	0.4	2.6	50.3	2.5	5860
3E	25	196/0.4	7.1	0.9	0.4	2.8	54.9	2.7	6940
3C	150	756/0.5	17.3	2.0	0.4	2.8	54.9	2.7	6940
3E	25	196/0.4	7.1	0.9	0.4	3.0	60.7	3.0	8460
3C	185	925/0.5	19.8	2.0	0.4	3.0	60.7	3.0	8460
3E	35	276/0.4	8.7	0.9	0.4	3.2	66.3	3.0	10820
3C	240	1221/0.5	22.2	2.0	0.4	3.2	66.3	3.0	10820
3E	50	396/0.4	10.5	1.0					



Type: **CJPF86/SC-VFD**  
**CJPJ85/SC-VFD**

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 Max.rated conductor temperature: 90°C

### Application

The cable is intended for power lighting and control system of shipboard and off-shore building such as oil platform. It is also available to metallurgical industry, chemical works, power plant and corporation mining etc.

### Construction

Components	Code	Material/description
Series code	C	Shipboard power cable
	VFD	VFD Cable
Conductor		Stranded tinned annealed copper, IEC 60228 Class 5
Insulation	J	XLPE, IEC 60092-360
Cabling		Flame retardant & non-hygroscopic fillers may be used
		Suitable tape(s) may be applied on the cabled core
Collective screen		CU/PS tape with tinned copper drain wire
Inner sheath	PF	Halogen-free flame retardant thermoplastic compound (SHF1)
	PJ	Halogen-free flame retardant thermoset compound (SHF2)
Aarmor	8	Tinned copper wire braid (TCWB)
Outer sheath	6	Halogen-free flame retardant thermoplastic compound (SHF1)
	5	Halogen-free flame retardant thermoset compound (SHF2)
Flammability	SC	LSHF Flame retardant



## CABLE TYPE: CJPF86/SC-VFD,CJPJ85/SC-VFD 0.6/1 KV

No. of cores	Conductor			Thickness of Insulation	Thickness of inner sheath	Nominal dia. inner sheath	Dia. of wire for armour	Thickness of outer sheath	Overall diameter		Approx. weight
	Nominal Area	Number of wires	Nom. Dia.						Nominal	Tol.	
No.	mm <sup>2</sup>	ea.	mm	mm	mm	mm	mm	mm	±mm	kg/km	
3	16	126/0.4	5.7	0.7	1.5	19.5	0.3	1.1	23.2	1.2	1010
3	25	196/0.4	7.1	0.9	1.6	23.6	0.3	1.2	27.5	1.4	1430
3	35	276/0.4	8.7	0.9	1.7	27.2	0.3	1.3	31.3	1.6	1860
3	50	396/0.4	10.5	1.0	1.9	31.9	0.4	1.4	36.6	1.8	2610
3	70	361/0.5	12.3	1.1	2.1	36.9	0.4	1.6	42.0	2.1	3520
3	95	475/0.5	13.9	1.1	2.2	40.6	0.4	1.7	45.9	2.3	4360
3	120	608/0.5	15.4	1.2	2.4	44.6	0.4	1.8	50.1	2.5	5370
3	150	756/0.5	17.3	1.4	2.6	50.0	0.4	1.9	55.7	2.8	6580
3	185	925/0.5	19.8	1.6	2.8	56.8	0.4	2.1	63.1	3	8110
3	240	1221/0.5	22.2	1.7	3.1	63.0	0.4	2.2	69.5	3	10270
3C	16	126/0.4	5.7	0.7	1.5	20.7	0.3	1.2	24.6	1.2	1210
3E	6	84/0.3	3.5	0.7	1.7	25.3	0.3	1.3	29.4	1.5	1660
3C	25	196/0.4	7.1	0.9	1.7	25.3	0.3	1.3	29.4	1.5	1660
3E	6	84/0.3	3.5	0.7	1.7	27.2	0.3	1.3	31.3	1.6	2020
3C	35	276/0.4	8.7	0.9	1.7	27.2	0.3	1.3	31.3	1.6	2020
3E	6	84/0.3	3.5	0.7	1.7	31.9	0.4	1.4	36.6	1.8	2880
3C	50	396/0.4	10.5	1.0	1.9	31.9	0.4	1.4	36.6	1.8	2880
3E	10	84/0.4	4.7	0.7	2.1	37.5	0.4	1.6	42.0	2.1	3920
3C	70	361/0.5	12.3	1.1	2.1	37.5	0.4	1.6	42.0	2.1	3920
3E	16	126/0.4	5.7	0.7	2.2	40.6	0.4	1.7	45.9	2.3	4770
3C	95	475/0.5	13.9	1.1	2.2	40.6	0.4	1.7	45.9	2.3	4770
3E	16	126/0.4	5.7	0.7	2.4	45.1	0.4	1.8	50.6	2.5	6020
3C	120	608/0.5	15.4	1.2	2.4	45.1	0.4	1.8	50.6	2.5	6020
3E	25	196/0.4	7.1	0.9	2.6	50.0	0.4	1.9	55.7	2.8	7210
3C	150	756/0.5	17.3	1.4	2.6	50.0	0.4	1.9	55.7	2.8	7210
3E	25	196/0.4	7.1	0.9	2.8	56.8	0.4	2.1	63.1	3.0	8990
3C	185	925/0.5	19.8	1.6	2.8	56.8	0.4	2.1	63.1	3.0	8990
3E	35	276/0.4	8.7	0.9	3.1	63.0	0.4	2.2	69.5	3.0	11520
3C	240	1221/0.5	22.2	1.7	3.1	63.0	0.4	2.2	69.5	3.0	11520
3E	50	396/0.4	10.5	1.0							

## CABLE TYPE: CJPF86/SC-VFD,CJPJ85/SC-VFD 1.8/3 KV

No. of cores	Conductor			Thickness of Insulation	Thickness of inner sheath	Nominal dia. inner sheath	Dia. of wire for armour	Thickness of outer sheath	Overall diameter		Approx. weight
	Nominal Area	Number of wires	Nom. Dia.						Nominal	Tol.	
No.	mm <sup>2</sup>	ea.	mm	mm	mm	mm	mm	mm	±mm	kg/km	
3	16	126/0.4	5.7	2.0	1.7	25.8	0.3	1.3	29.9	1.5	1370
3	25	196/0.4	7.1	2.0	1.8	28.6	0.3	1.4	33.1	1.7	1780
3	35	276/0.4	8.7	2.0	1.9	32.1	0.4	1.5	37.1	1.9	2340
3	50	396/0.4	10.5	2.0	2.1	36.4	0.4	1.6	41.6	2.1	3050
3	70	361/0.5	12.3	2.0	2.2	40.4	0.4	1.7	45.9	2.3	3920
3	95	475/0.5	13.9	2.0	2.4	44.3	0.4	1.8	49.9	2.5	4800
3	120	608/0.5	15.4	2.0	2.5	47.7	0.4	1.9	53.6	2.7	5770
3	150	756/0.5	17.3	2.0	2.7	52.2	0.4	2.0	58.3	2.9	6930
3	185	925/0.5	19.8	2.0	2.9	58.0	0.4	2.1	64.5	3.0	8340
3	240	1221/0.5	22.2	2.0	3.1	63.6	0.4	2.3	70.4	3.0	10460
3C	16	126/0.4	5.7	2.0	1.7	25.8	0.3	1.3	29.9	1.5	1530
3E	6	84/0.3	3.5	0.7	1.8	28.6	0.3	1.4	33.1	1.7	1940
3C	25	196/0.4	7.1	2.0	1.8	28.6	0.3	1.4	33.1	1.7	1940
3E	6	84/0.3	3.5	0.7	1.9	32.1	0.4	1.5	37.1	1.9	2500
3C	35	276/0.4	8.7	2.0	1.9	32.1	0.4	1.5	37.1	1.9	2500
3E	6	84/0.3	3.5	0.7	2.1	36.4	0.4	1.6	41.6	2.1	3330
3C	50	396/0.4	10.5	2.0	2.1	36.4	0.4	1.6	41.6	2.1	3330
3E	10	84/0.4	4.7	0.7	2.2	40.4	0.4	1.7	45.9	2.3	4330
3C	70	361/0.5	12.3	2.0	2.2	40.4	0.4	1.7	45.9	2.3	4330
3E	16	126/0.4	5.7	0.7	2.4	44.3	0.4	1.8	49.9	2.5	5210
3C	95	475/0.5	13.9	2.0	2.4	44.3	0.4	1.8	49.9	2.5	5210
3E	16	126/0.4	5.7	0.7	2.5	47.7	0.4	1.9	53.6	2.7	6410
3C	120	608/0.5	15.4	2.0	2.5	47.7	0.4	1.9	53.6	2.7	6410
3E	25	196/0.4	7.1	0.9	2.7	52.2	0.4	2.0	58.3	2.9	7560
3C	150	756/0.5	17.3	2.0	2.7	52.2	0.4	2.0	58.3	2.9	7560
3E	25	196/0.4	7.1	0.9	2.9	58.0	0.4	2.1	64.5	3.0	9220
3C	185	925/0.5	19.8	2.0	2.9	58.0	0.4	2.1	64.5	3.0	9220
3E	35	276/0.4	8.7	0.9	3.1	63.6	0.4	2.3	70.4	3.0	11720
3C	240	1221/0.5	22.2	2.0	3.1	63.6	0.4	2.3	70.4	3.0	11720
3E	50	396/0.4	10.5	1.0							