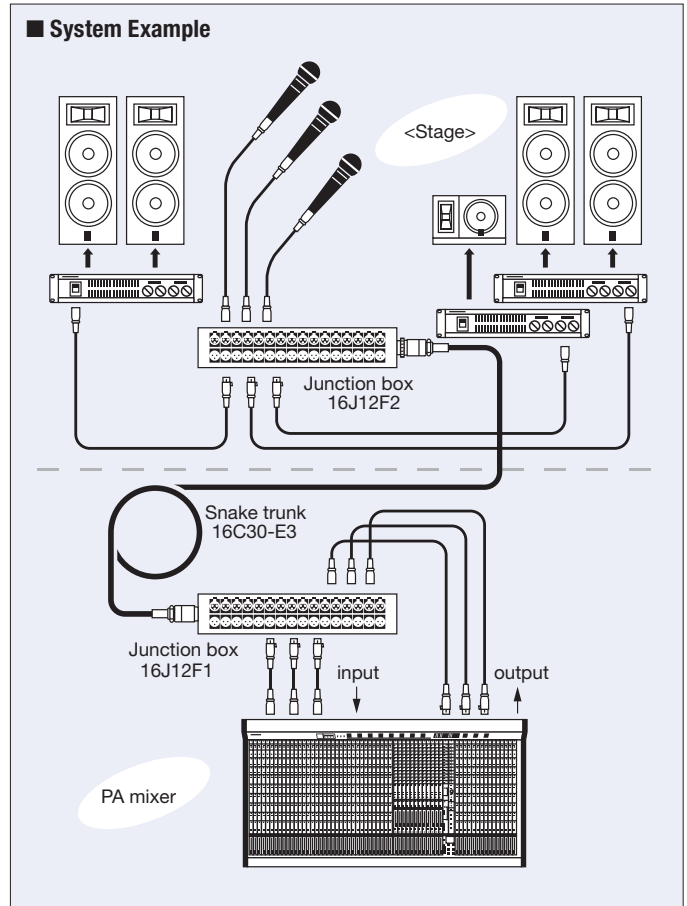




■ Snake Trunk



■ Junction Box





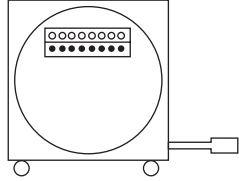
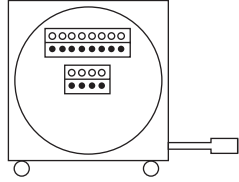
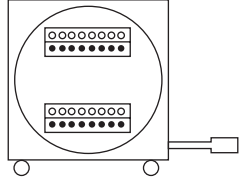
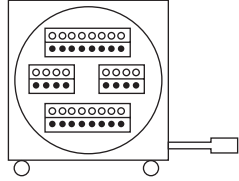
■ Fantail

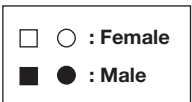


■ Cable Reel Snake

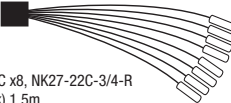
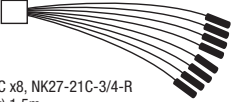
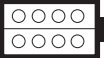




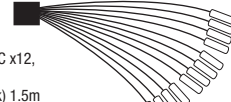

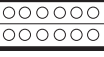

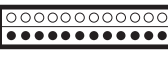
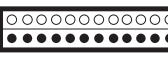

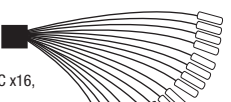
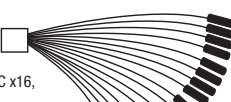
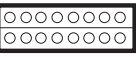


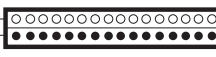
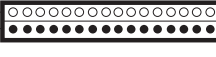
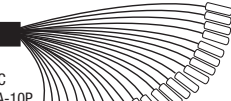
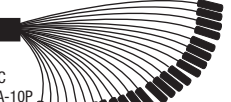
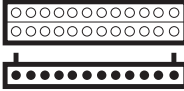
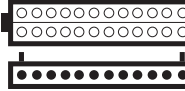
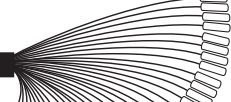
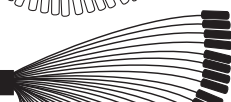
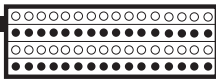
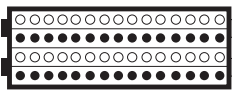
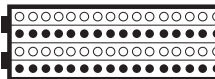
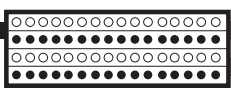
■ Connectors used with Ganare multichannel cable system

Cable mount	Panel mount	Cable mount	Panel mount
XLR3-11C (female)	XLR3-32F77 (male)	XLR3-12C (male)	XLR3-31F77 (female)
For multichannel cable	For Junction box	For multichannel cable	For Junction box
Plug	Receptacle	Plug	Receptacle
NK27-21C-R (female) + NK-AD1-R (barrel extension)	NK27-32S-R (male)	FK37-21C-R (female) + FK-AD2-R (barrel extension)	FK37-32S-R (male)
NK27-22C-R (male) + NK-AD1-R (barrel extension)	NK27-31S-R (female)	FK37-22C-R (male) + FK-AD2-R (barrel extension)	FK37-31S-R (female)
D/MS3106B32A-10S (female) + EB-02 (barrel extension) + D/MS3057-20A (cable clamp)	D/MS3102A32A-10P (male)	D/MS3106B36-73S (female) + EB-03 (barrel extension) + D/MS3057-24A (cable clamp)	D/MS3102A36-73P (male)

	Snake Trunks	Cable Reel Snakes																																										
8 CH	<p>L-4E3 Star quad, Braided shield</p>  <p>connector : NK27-21C 3/4-R, NK27-22C 3/4-R cable : L-4E3-8P (black) rubber bushing : AN3420-12 + Heat Shrink Tube</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>8C05-E3</td> <td>5m</td> <td>1.6kg</td> </tr> <tr> <td>8C10-E3</td> <td>10m</td> <td>3.0kg</td> </tr> <tr> <td>8C30-E3</td> <td>30m</td> <td>8.4kg</td> </tr> <tr> <td>8C50-E3</td> <td>50m</td> <td>13.8kg</td> </tr> </tbody> </table>	Model	Length	Weight	8C05-E3	5m	1.6kg	8C10-E3	10m	3.0kg	8C30-E3	30m	8.4kg	8C50-E3	50m	13.8kg	<p>M2 Two-cord, AT shield</p>  <p>connector : NK27-21C 3/4-R, NK27-22C 3/4-R cable : M202-8AT (black) rubber bushing : AN3420-10, 12 + Heat Shrink Tube</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>8C10-M2</td> <td>10m</td> <td>1.7kg</td> </tr> <tr> <td>8C30-M2</td> <td>30m</td> <td>4.5kg</td> </tr> <tr> <td>8C50-M2</td> <td>50m</td> <td>7.3kg</td> </tr> </tbody> </table>	Model	Length	Weight	8C10-M2	10m	1.7kg	8C30-M2	30m	4.5kg	8C50-M2	50m	7.3kg	 <p>connector : NK27-21C-3/4-R cable : L-4E3-8P (black)</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> <th>Cable reel</th> </tr> </thead> <tbody> <tr> <td>8R30-E3</td> <td>30m</td> <td>18.1kg</td> <td>R380</td> </tr> <tr> <td>8R50-E3</td> <td>50m</td> <td>23.0kg</td> <td>R380</td> </tr> </tbody> </table>	Model	Length	Weight	Cable reel	8R30-E3	30m	18.1kg	R380	8R50-E3	50m	23.0kg	R380		
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12 CH	<p>connector : NK27-21C 7/8-R, NK27-22C 7/8-R cable : L-4E3-12P (black) rubber bushing : AN3420-16</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>12C05-E3</td> <td>5m</td> <td>2.1kg</td> </tr> <tr> <td>12C10-E3</td> <td>10m</td> <td>3.9kg</td> </tr> <tr> <td>12C30-E3</td> <td>30m</td> <td>11.1kg</td> </tr> <tr> <td>12C50-E3</td> <td>50m</td> <td>18.3kg</td> </tr> </tbody> </table>	Model	Length	Weight	12C05-E3	5m	2.1kg	12C10-E3	10m	3.9kg	12C30-E3	30m	11.1kg	12C50-E3	50m	18.3kg	<p>connector : NK27-21C 3/4-R, NK27-22C 3/4-R cable : M202-12AT (black) rubber bushing : AN3420-10, 12 + Heat Shrink Tube</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>12C10-M2</td> <td>10m</td> <td>2.1kg</td> </tr> <tr> <td>12C30-M2</td> <td>30m</td> <td>5.8kg</td> </tr> <tr> <td>12C50-M2</td> <td>50m</td> <td>9.3kg</td> </tr> </tbody> </table>	Model	Length	Weight	12C10-M2	10m	2.1kg	12C30-M2	30m	5.8kg	12C50-M2	50m	9.3kg	 <p>connector : NK27-21C-7/8-R cable : L-4E3-12P (black)</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> <th>Cable reel</th> </tr> </thead> <tbody> <tr> <td>12R30-E3</td> <td>30m</td> <td>20.6kg</td> <td>R380</td> </tr> <tr> <td>12R50-E3</td> <td>50m</td> <td>30.4kg</td> <td>R460</td> </tr> </tbody> </table>	Model	Length	Weight	Cable reel	12R30-E3	30m	20.6kg	R380	12R50-E3	50m	30.4kg	R460		
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16 CH	<p>connector : FK37-21C 7/8-R, FK37-22C 7/8-R cable : L-4E3-16P (black) rubber bushing : AN3420-16</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>16C05-E3</td> <td>5m</td> <td>2.6kg</td> </tr> <tr> <td>16C10-E3</td> <td>10m</td> <td>4.9kg</td> </tr> <tr> <td>16C30-E3</td> <td>30m</td> <td>14.1kg</td> </tr> <tr> <td>16C50-E3</td> <td>50m</td> <td>23.3kg</td> </tr> </tbody> </table>	Model	Length	Weight	16C05-E3	5m	2.6kg	16C10-E3	10m	4.9kg	16C30-E3	30m	14.1kg	16C50-E3	50m	23.3kg	<p>connector : FK37-21C 7/8-R, FK37-22C 7/8-R cable : M202-16AT (black) rubber bushing : AN3420-10, 12, 16</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>16C10-M2</td> <td>10m</td> <td>2.7kg</td> </tr> <tr> <td>16C30-M2</td> <td>30m</td> <td>7.5kg</td> </tr> <tr> <td>16C50-M2</td> <td>50m</td> <td>12.3kg</td> </tr> </tbody> </table>	Model	Length	Weight	16C10-M2	10m	2.7kg	16C30-M2	30m	7.5kg	16C50-M2	50m	12.3kg	 <p>connector : FK37-21C-7/8-R cable : L-4E3-16P (black)</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> <th>Cable reel</th> </tr> </thead> <tbody> <tr> <td>16R30-E3</td> <td>30m</td> <td>24.1kg</td> <td>R380</td> </tr> <tr> <td>16R50-E3</td> <td>50m</td> <td>36.1kg</td> <td>R460</td> </tr> </tbody> </table>	Model	Length	Weight	Cable reel	16R30-E3	30m	24.1kg	R380	16R50-E3	50m	36.1kg	R460		
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24 CH	<p>connector : ◊MS3106B-32A10S+D/MS3057-20A×2 cable : L-4E3-24P (black) rubber bushing : AN3420-20</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>24C05-E3</td> <td>5m</td> <td>4.3kg</td> </tr> <tr> <td>24C10-E3</td> <td>10m</td> <td>7.7kg</td> </tr> <tr> <td>24C30-E3</td> <td>30m</td> <td>21.7kg</td> </tr> <tr> <td>24C50-E3</td> <td>50m</td> <td>35.7kg</td> </tr> </tbody> </table> <p>Extension Cord Cable: ◊MS3101A32A10P+D/MS3057-20A×2 Cable: L-4E3-24P (black)</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>24C005-E3MS22</td> <td></td> <td></td> </tr> </tbody> </table>	Model	Length	Weight	24C05-E3	5m	4.3kg	24C10-E3	10m	7.7kg	24C30-E3	30m	21.7kg	24C50-E3	50m	35.7kg	Model	Length	Weight	24C005-E3MS22			<p>connector : ◊MS3106B-32A10S+D/MS3057-20A×2 cable : M202-24AT (black) rubber bushing : AN3420-16, 20 + Heat Shrink Tube</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>24C10-M2</td> <td>10m</td> <td>4.0kg</td> </tr> <tr> <td>24C30-M2</td> <td>30m</td> <td>10.4kg</td> </tr> <tr> <td>24C50-M2</td> <td>50m</td> <td>16.8kg</td> </tr> </tbody> </table>	Model	Length	Weight	24C10-M2	10m	4.0kg	24C30-M2	30m	10.4kg	24C50-M2	50m	16.8kg	 <p>connector : D/MS3106B-32A10S cable : L-4E3-24P (black)</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> <th>Cable reel</th> </tr> </thead> <tbody> <tr> <td>24R30-E3</td> <td>30m</td> <td>34.6kg</td> <td>R460</td> </tr> </tbody> </table>	Model	Length	Weight	Cable reel	24R30-E3	30m	34.6kg	R460
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Note: Connecting cables 24C005-E3MS22 and 32C005-M2MS22 are to be used to interconnect snake trunks only and they do not mate with our other standard snake system.

Fantails	Junction Boxes		
<p>8S1N2 Connector : XLR3-11C x8, NK27-22C-3/4-R Cable : L-4E6S (black) 1.5m Weight : 1.1kg</p>  <p>8S2N1 Connector : XLR3-12C x8, NK27-21C-3/4-R Cable : L-4E5C (black) 1.5m Weight : 1.0kg</p> 	<p>Single XLR per channel</p> <p>8B1N2 Connector: XLR3-31F77 x8, NK27-32S-R x1 Weight : 0.9kg</p>  <p>8B2N1 Connector: XLR3-32F77 x8, NK27-31S-R x1 Weight : 1.1kg</p> 	<p>Parallel XLR per channel</p> <p>8J12N2 Connector: XLR3-31F77 x8, XLR3-32F77 x8 NK27-32S-R x1 Weight : 1.5kg</p>  <p>8J12N1 Connector: XLR3-31F77 x8, XLR3-32F77 x8 NK27-31S-R x1 Weight : 1.5kg</p> 	<p>Parallel XLR per channel MultiPin feed through</p> <p>8J12N12 Connector: XLR3-31F77 x8, XLR3-32F77 x8 NK27-31S-R x1, NK27-32S-R x1 Weight : 1.6kg</p> 
<p>12S1N2 Connector : XLR3-11C x12, NK27-22C-3/4-R Cable : L-4E5C (black) 1.5m Weight : 1.4kg</p>  <p>12S2N1 Connector : XLR3-12C x12, NK27-21C-3/4-R Cable : L-4E5C (black) 1.5m Weight : 1.3kg</p> 	<p>12B1N2 Connector: XLR3-31F77 x12, NK27-32S-R x1 Weight : 1.3kg</p>  <p>12B2N1 Connector: XLR3-32F77 x12, NK27-31S-R x1 Weight : 1.2kg</p> 	<p>12J12N2 Connector: XLR3-31F77 x12, XLR3-32F77 x12 NK27-32S-R x1 Weight : 2.1kg</p>  <p>12J12N1 Connector: XLR3-31F77 x12, XLR3-32F77 x12 NK27-31S-R x1 Weight : 2.1kg</p> 	<p>12J12N12 Connector: XLR3-31F77 x12, XLR3-32F77 x12 NK27-31S-R x1, NK27-32S-R x1 Weight : 2.2kg</p> 
<p>16S1F2 Connector : XLR3-11C x16, FK37-22C-7/8-R Cable : L-4E5C (black) 1.5m Weight : 1.9kg</p>  <p>16S2F1 Connector : XLR3-12C x16, FK37-21C-7/8-R Cable : L-4E5C (black) 1.5m Weight : 1.7kg</p> 	<p>16B1F2 Connector: XLR3-31F77 x16, FK37-32S-R x1 Weight : 1.6kg</p>  <p>16B2F1 Connector: XLR3-32F77 x16, FK37-31S-R x1 Weight : 1.3kg</p> 	<p>16J12F2 Connector: XLR3-31F77 x16, XLR3-32F77 x16 FK37-32S-R x1 Weight : 2.5kg</p>  <p>16J12F1 Connector: XLR3-31F77 x16, XLR3-32F77 x16 FK37-31S-R x1 Weight : 2.5kg</p> 	<p>16J12F12 Connector: XLR3-31F77 x16, XLR3-32F77 x16 FK37-31S-R x1, FK37-32S-R x1 Weight : 2.6kg</p> 
<p>24S1MS2 Connector : XLR3-11C x24, D/MS3101A-32A-10P Cable : L-4E5C (black) 2m</p>  <p>24S2MS2 Connector : XLR3-12C x24, D/MS3101A-32A-10P Cable : L-4E5C (black) 2m</p> 		<p>24B12MS Connector: XLR3-31F77 x24 (on top) XLR3-32F77 x24 (12 on each side) D/MS3102A-32A10P Weight : 2.7kg</p> 	<p>24B12MSW Connector: XLR3-31F77 x24 (on top) XLR3-32F77 x24 (12 on each side) D/MS3102A-32A10P x2 Weight : 3.0kg</p> 
<p>32S1MS2 Connector : XLR3-11C x32, D/MS3101A-36-73P Cable : L-4E5C (black) 2m</p>  <p>32S2MS2 Connector : XLR3-12C x32, D/MS3101A-36-73P Cable : L-4E5C (black) 2m</p> 		<p>32B12MS Connector: XLR3-31F77 x32, XLR3-32F77 x32 D/MS3102A36-73P Weight : 5.3kg</p>  <p>32B12MWF11 Connector: XLR3-31F77 x32, XLR3-32F77 x32 D/MS3102A36-73P x2, FK37-31S-R x2 Weight : 6.0kg</p> 	<p>32B12MSW Connector: XLR3-31F77 x32, XLR3-32F77 x32 D/MS3102A36-73P x2 Weight : 5.5kg</p>  <p>32B12MF11 Connector: XLR3-31F77 x32, XLR3-32F77 x32 D/MS3102A36-73P x1, FK37-31S-R x2 Weight : 5.7kg</p> 

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

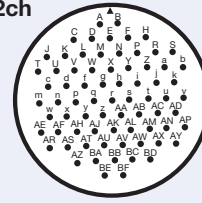
Multichannel Systems

Cable Assemblies

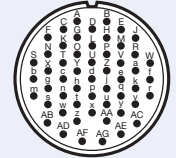
Multichannel Connector Pin Assignments

Ch No.	Cable Unit Identification		32ch		24ch		16ch		8ch • 12ch		
	L-4E3	M202	D/MS3102A36-73 D/MS3106B36-73		D/MS3102A32A-10 D/MS3106B32A-10		FK37		NK27		
	Spiral Marker Color	Insulator Color	HOT	COLD	HOT	COLD	HOT	COLD	HOT	COLD	
		Identifying Color • Common identifying Color									
1	RED	RED • WHT	A	B	A	B	1	2	1	3	
2	BLU	BLU •	C	D	C	D	3	4	4	5	
3	YEL	YEL •	F	H	F	G	5	6	6	7	
4	GRN	GRN •	J	K	H	J	8	9	8	9	
5	BRN	BRN •	L	M	K	L	10	11	11	12	
6	N/A	GRY • ▼	N	P	N	O	12	13	13	14	
7	BLU • BLK	BLU • BLK	R	S	P	R	14	15	15	16	
8	YEL • BLK	YEL •	T	U	S	T	16	17	17	18	
9	GRN • BLK	GRN •	V	W	U	V	21	22	19	20	
10	BRN • BLK	BRN •	Y	Z	X	Y	23	24	22	23	
11	BLK	GRY • ▼	a	b	Z	a	25	26	24	25	
12	BLU • ORN	BLU • ORN	c	d	b	c	27	28	26	27	
13	YEL • ORN	YEL •	f	g	d	e	29	30	SHIELD		
14	GRN • ORN	GRN •	h	i	g	h	32	33	10		
15	BRN • ORN	BRN •	j	k	j	k	34	35			
16	ORN	GRY • ▼	m	n	m	n	36	37			
17	BLU • PNK	BLU • PNK	u	v	p	q	SHIELD				
18	YEL • PNK	YEL •	w	x	s	t	19				
19	GRN • PNK	GRN •	y	z	u	v					
20	BRN • PNK	BRN •	AA	AB	w	x					
21	PNK	GRY • ▼	AC	AD	AB	z					
22	BLU • WHT	BLU • RED	AE	AF	AA	AC					
23	YEL • WHT	YEL •	AH	AJ	AD	AF					
24	GRN • WHT	GRN •	AL	AM	AG	AE					
25	—	BRN •	AN	AP	SHIELD						
26	—	GRY • ▼	AR	AS	E						
27	—	YEL • BLU	AT	AU							
28	—	GRN •	AV	AW							
29	—	BRN • ▼	AX	AY							
30	—	GRN • YEL	AZ	BA							
31	—	BRN •	BC	BD							
32	—	GRY • ▼	BE	BF							
			SHIELD								
			E	q	t						
			X	r	AK						
			p	s	BB						

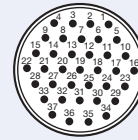
32ch



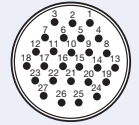
24ch



16ch



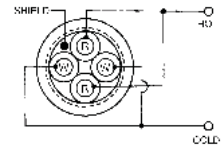
8-12ch



■ Connection Method

L-4E3 Types:

Identify the channel number by the color of the spiral marker on the inner jacket (gray). The unit is 4-core construction and the insulator colors are blue, blue, white, and white. Connect these with the same colored cores, so that the blue cores are connected to Hot and the white cores to Cold.



M202 Types:

The unit is 2-core construction, with the channel number identified by the insulator color (a combination of the identifying color and common identifying color). Connect the identifying color core to Hot, and the common identifying color core to Cold.

■ Connections to XLR Connectors

Polarity	HOT	COLD	SHIELD
Pin No.	2	3	1

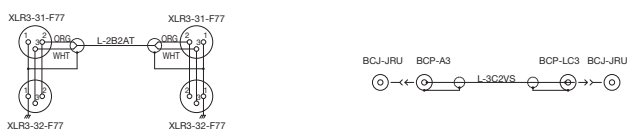
Cable Reels

Plain reels for winding cable

Model	Weight (kg)	Description	Stackability
R460-S	9.9	Reel unit for cable winding / With caster.	N/A
R380-S	8.3	Reel unit for cable winding / With caster.	N/A
R300-S	4.3	Reel unit for cable winding.	✓
R300	4.3	Front panel can be refurbished to create connector mounting holes.	✓
R300-L	4.3	Both front panel and drum can be refurbished to create connector mounting holes.	✓
R300-CN	4.3	Both panel and drum have 2 XLR connectors (one male, one female) installed.	✓
R300-BN	4.3	Both panel and drum have BNC receptacles (one each).	✓

- 3-speed brake controller. (Lock/Soft/Free)
- Non-lubricated bearings.
- Rugged E frame design.

Wiring



R300-CN

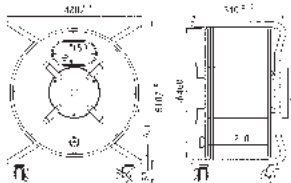
R300-BN

Reel with Cable Assembly

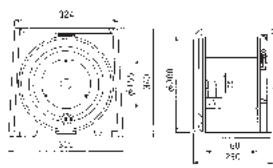
Cable detachable type.

Model	Cable reel	Description			Weight (kg)
		Inner end	Cable	Outer end	
CR100-CN	R300-CN	XLR3-12C	L-4E6S(100m)	XLR3-11C	9.6
CR100-S	R300-S	XLR3-12C	L-4E6S(100m)	XLR3-11C	9.6
CR90-BN	R300-BN	BCP-H5B	L-5C2VS(90m)	BCP-H5B	10.5

Dimensions

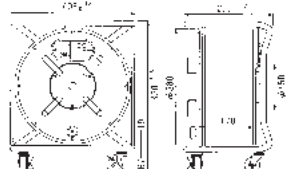


R460-S

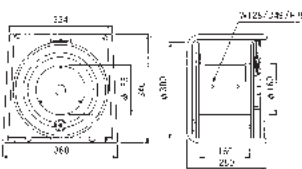


R300

(Connectors can be attached to the front panel)

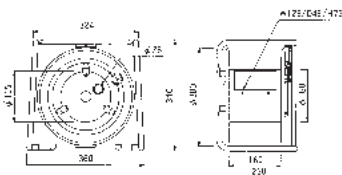


R380-S

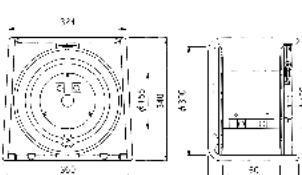


R300-L

(Connectors can be attached to the front panel and the drum)



R300-S



R300-CN

(R300-BN comes with BNC receptacles)



3-speed brake controller



R460-S

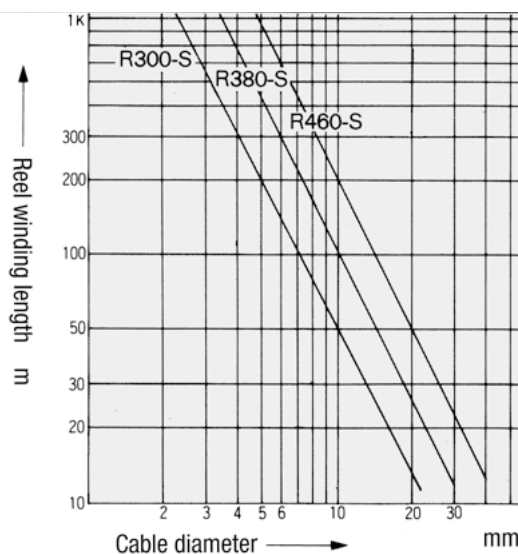


R300-S



CR100-CN

Cable winding length reference chart



<Wind length conversion formula>

$$R300-S (S, L, CN) \quad L = \frac{8448}{D^2} \times 0.6 \text{ (m)} \quad R460-S \quad L = \frac{33852}{D^2} \times 0.6 \text{ (m)}$$

$$R380-S \quad L = \frac{18207}{D^2} \times 0.6 \text{ (m)} \quad D: \text{cable outer diameter (mm)} \\ L: \text{wind length}$$