

Flat Cables and Connectors

Standard Copper Cable (Model FC)

- · Yellow PVC Jacketed Flat Cable 600 Volt AC Rated
- Extra Flexible, Color Coded According to NEMA Standards
 UL and CSA –40°C to +105°C (–40°F to +221°F) Temperature Range

Shielded Copper Cable (Model SFC)

- · 600 Volt AC Rated
- Standard Cable with Tinned Copper Braided Shield
- 95.7% Min, RFI Rating
- · Black Heat Shrink Tubing Outer Cover

Test Report

The following numerical data was used to calculate braid angle and shield coverage (per QQB-575B1 PARA,4,3,2,)

Braid Angle	A = 24
Coverage	K = 99
Diameter of Shield	D = 0.750
Strand Diameter	d = .005
Picks per inch	P = 9
Number of Carriers	C = 96
Strands per Carrier	N = 9
NPd/sin a	F = 9911877

Flat Cables

Required cable length equals track length plus 10% plus length required for end connections

Catalog	Number++	Cable	Size	Continuous Duty Rating	Short Time				No of	Nominal Weight Dimensions
Yellow PVC	Shielded Flat	Number of Con-	AWG Wire	at 30°C (86°F)	Short Time Rating - Amps**		Strands per	per Foot-	Unshielded Cable	
Jacket	Cable	ductors			30 Min.	Conductor	Pounds	Inches†		
FC-42		4	#2	130	148	173	665	1,342	.575 x 1,975	
FC-44		4	#4	95	111	130	420	.896	.515 x 1.750	
FC-46	SFC-46	4	#6	75	83	94	266	620	.435 x 1,490	
FC-48	SFC-48	4	#8	50	63	69	168	.401	.375 x 1.225	
FC-410	SFC-410	4	#10	40	49	52	105	239	.290 x .890	
FC-412	SFC-412	4	#12	30	36	40	65	.180	.260 x .800	
FC-414	SFC-414	4	#14	25	31	32	41	.138	.240 x .690	
FC-712	SFC-712	7	#12	21			65	.308	.260 x 1.310	
FC-812	SFC-812	8	#12	20	Control	Cables	65	.343	.260 x 1,440	
FC-814	SFC-814	8	#14	17			41	.254	.240 x 1.290	
FC-816	SFC-816	8	#16	15	No S	Short	65	.194	225 x 1.170	
FC-1214	SFC-1214	12	#14	17	Time F	Rating	41	.380	240 x 1.825	
FC-1216	SFC-1216	12	#16	15		_	65	.292	.225 x 1.700	

- * See Current Correction Factors for Temperatures above 30°C (86°F)
- ** For crane and hoist motors in accord with article 610 of the 1989 National Electrical Code for 90°C Cables
- † Unshielded cable measurements may vary due to manufacturing tolerances. Contact factory for shielded cable dimensions.
- †† All cables from #10 AWG through #16 AWG have zip cords for easy removal of the outer jacket.



Connectors

CAUTION

MAKE CERTAIN POWER SUPPLY IS DISCON-NECTED BEFORE INSTALLING, REPAIRING. OR WORKING IN THE PROXIMITY OF ANY ELECTRICAL SYSTEM. ONLY QUALIFIED ELECTRICAL PERSONNEL SHOULD INSTALL OR REPAIR THESE PRODUCTS.

Heat Shrinkable Cable Connectors for Single Cable and Multiple Cable Groupings

Corrosion Resistant · Flame Retardant · Exceed Navy Requirements for Tightness and Integrity when used with One Flat Cable or Multiple Flat Cables of the Same Size.

	Maximum	Cable Size		Cable Entry				
Catalog Number		Number of	AWG Wire	Range				
	of Cables	Conductors	Size	Min.	Max.	NPS		
HS-CG1	3	4	#12 or 14	,5	1.125	1"		
HS-CG2	4	8	#14 or 16	.75	1,625	1.5		
3 2		7	#12					
	3	4	#8, 10 or 12					
	2	4	#6 or 8					
	1	4	#6					
HS-CG3	S-CG3 5 12	12	#14 or 16	1" 2.125	2.125	2"		
	4	4	#8					
	3	4	#6 or 4					

Continuous Duty Current Correction Factors for Ambient Temperatures Above 30°C (86°F).

(Per Article 310-16 of the 1996 National Electrical Code)

Ambient Temperature °C °F				
		Correction Factor		
30	86	1.00 (Full load current rating)		
50	122	82		
65	149	.58		

Connectors with Bushings for **Unshielded Flat Cables**

NO.	COLOR CODING
123456789011	Green Black Red Blue Orange Yellow Brown Red w/Black Blue w/Black Orange w/Black Yellow w/Black Brown w/Black

For snielded cable, use neat shrink fittings.						
		Cable S				
Catalog No.	Number of Cables	Number of Conductors	AWG Wire Size	NPS		
FC-4/8C	One 4-condu and one 8-co	1.25				
FC-42C	-ti	4	#2	2"		
FC-44C	1	4	#4	2"		
FC-46C	1	4	#6	1.50		
FC-48C	-1	4	#8	1.25		
FC-410C	- 1	4	#10	1"		
FC-412C	1	4	#12	1"		
FC-414C	1	4	#14	1"		
FC-712C	- 1	7	#12	1.25		
FC-712C2	2	7	#12	1.25		
FC-812C	1	8	#12	1,50		
FC-812C2	2	8	#12	1.50		
FC-816C	1	8	#14 or 16	1.25		
FC-816C2	2	8	#14 or 16	1.25		
FC-1216C	1	12	#14 or 16	2*		
FC-1216C2	2	12	#14 or 16	2*		
FC-1216C3	3	12	#14 or 16	2"		

Round Pendant Control Cables and Accessories

Round Pendant Control Cables (UL Listed and CSA Approved)

With 600V 105°C Yellow PVC. Color-coded in accord with NEMA standards.

Catalog Number	Description	Weight #/ft.
RPC-414	4-Conductor, #14 AWG, .460" Nominal O.D.	.14
RPC-816	8-Conductor, #16 AWG, .640" Nominal O.D.	.20
RPC-1216	12-Conductor, #16 AWG, .745" Nominal O.D.	.30
RPC-1616	16-Conductor, #16 AWG, .840" Nominal O.D.	.38
RPC-2416	24-Conductor, #16 AWG, .890" Nominal O.D.	.49
RPC-3616	36-Conductor, #16 AWG, 1.050" Nominal O.D.	.68
RPC-316-S2	3-Conductor, #16 AWG with Internal Steel	
	Strain Relief Cable, .520" Nominal O.D. Not U.L.	.13

Steel Strain Relief Cable and Accessories

RPC-SRC	Nylon-Coated Steel Cable, 1/8" Diameter, 480	lb.
	Capacity	

RPC-SRCC U-Clamp for Strain Cable (4 required per cable)
RPC-SRCE Eye-Bolt to Connect Strain Cable to Junction Box

RPC-SRCT Steel Thimble for Cable Bend

RPC-SR HDW KIT — 4 RPC-SRCC, 1 RPC-SRCE & 1 RPC-SRCT.

Cord Grips for Round Cable

Catalog Number	Conduit Size NPS — Inches	Accommodates Cable Diameter — Inches	
RPC-CG00	3/4	.430563	
RPC-CG0	3/4	.560687	
RPC-CG1	1	.560687	
RPC-CG2	1	.625750	
RPC-CG3	1	.750825	
RPC-CG4	1-1/4	.625750	
RPC-CG5	1-1/4	.750875	
RPC-CG6	1-1/4	.875 - 1.000	
RPC-CG7	1-1/4	1.000 - 1.125	
RPC-CG8	1-1/4	1.125 - 1.250	

Contact the Duct-O-Wire Factory for:

- Shielded RFI Round Cables
- · Round Cables with built-in strain relief

Round Cable Conductor Color Coding

	Green	18. Red with Blue Stripe	
	1. Black	19 Orange with Blue Stripe	
	2. Red	20. Yellow with Blue Stripe	
RPC-414	3. Blue	21. Brown with Blue Stripe	
	4. Orange	22. Black with Orange Stripe	
	5. Yellow	23. Red with Orange Stripe	RPC-2416
	6. Brown	24. Blue with Orange Stripe	
RPC-816	7. Red with Black Stripe	25. Yellow with Orange Stripe	
	8. Blue with Black Stripe	26, Brown with Orange Stripe	
	9. Orange with Black Stripe	27. Black with Yellow Stripe	
	10. Yellow with Black Strlpe	28. Red with Yellow Stripe	
RPC-1216	11. Brown with Black Stripe	29. Blue with Yellow Stripe	
	12. Black with Red Stripe	30. Orange with Yellow Stripe	
	13, Blue with-Red Stripe	31. Brown with Yellow Stripe	
	14. Orange with Red Stripe	32. Black with Brown Stripe	
RPC-1616	15. Yellow with Red Stripe	33. Red with Brown Stripe	
	16. Brown with Red Stripe	34. Blue with Brown Stripe	
	17. Black with Blue Stripe	35. Orange with Brown Stripe	RPC-3616

The code numbering for the conductors in a round cable all follow the NEMA standards. The Green cable is always a ground and should never be used for any switching function. The numbers shown on the chart are so arranged that the various cable sizes always start with the Green and end with the last number in the cable. For example, the RPC-414 uses the Green, Black, Red, and Blue. The RPC-816 uses the Green and numbers I thru 7. The rest of the cable sizes are listed along the color coding chart.

The exception to the color coding chart is the RPC-316-S2. This special round cable is primarily for 2 button stations that need either an internal strain cable or a Ground, in this cable you have both in the Green wire. It is constructed of a heavy steel braid which will serve for either or both purposes. The other three colors are blue, yellow, and brown.

DUCT-O-WIRE PENDFLEX 105C 600V



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