

## #16 Coaxial Contacts

### Coaxial Cable - Contact Monocrimp and Multipiece

Cable type	Impedance	Contact type	Ø over jacket		Ø over dielectric		Inner cond size Ext. Ø inch	Ø outer braid		Male contact kit for coaxial cable	Female contact kit for coaxial cable
			inch	mm	inch	mm		inch	mm		
RG161/U	75	Multi piece	0.090"	2.29	0.057"	1.45	-	-	-	RMDXK10D28	RCDXK1D28
RG179A/U	75		0.105"	2.67	0.063"	1.6	0.011"	0.084"	2.13 max		
RG179B/U	75		0.105"	2.67	0.063"	1.6	0.011"	0.084"	2.13 max		
RG187/U	75		0.109"	2.79 max	0.059"	1.52	0.011"				
RG188/U	50		0.109"	2.79 max	0.059"	1.52	0.020"	0.078"	1.98 max		
RG174/U	50		0.114"	2.92	0.059"	1.52	0.018"	0.088"	2.24 max		
AMPHENOL 21-598	50		0.105"	2.67	0.059"	1.52	0.018"	-	-		
RG196/U	50		0.079"	2.03 max	0.034"	0.086	0.011"	-	-		
RG178A/U	50		0.075"	1.91	0.034"	0.86	0.011"	0.054"	1.37 max		
RG/188A/U	50	Mono crimp	0.110"	2.79	0.059"	1.52	0.020"	0.078"	1.98 max	RMDX6036D28	RCDX6036D28
KX21TVT (europe) RG178 B/U	50		0.075"	1.91	0.034"	0.86	0.011"	0.054"	1.37 max	RMDX6034D28	RCDX6034D28
RG178 / BU	50		0.075"	1.91	0.034"	0.86	0.011"	0.054"	1.37 max	RMDX6050D28	RCDX6016D28
RG174/U	50		0.115"	2.92	0.059"	1.52	0.018"	0.088"	2.24 max	RMDX6032D28	RCDX6032D28
RG188A/U	50		0.109"	2.79	0.059"	1.52	0.020"	0.078"	1.98 max	RMDX6036D28	RCDX6036D28
RG316/U	50		0.107"	2.72	0.06"	1.52	0.020"	0.078"	2.05 max	RMDX6036D28	RCDX6036D28
raychem 5024A3111	50		0.120"	3.05	0.083"	2.11	0.025"	0.097"	2.46	RMDX6052D28	RCDX6052D28
raychem 5026e1614	50		0.083"	2.11	0.050"	1.27	0.018"	0.067"	1.7	RMDX6036D28	RCDX6036D28
surprenant pn 8134	-		Multi piece	0.100"	2.54	0.058"	1.47	0.011"	-	-	RMDXK10D28
PRD PN 247AS-C1123-001	-	Mono crimp	0.103"	2.62	0.059"	1.52	0.020"	0.078"	1.98	RMDX6018D28	RCDX6018D28
PRD PN 247AS-C1251	-		0.092"	2.34	0.050"	1.27	0.025"	0.067"	1.7	RMDX6018D28	RCDX6018D28
JUDD C15013010902	-		0.087"	2.13	0.050"	1.27	0.018"	0.066"	1.67	RMDX6036D28	RCDX6036D28
CDC PIN22939200	-		0.090"	2.29	0.048"	1.22	0.011"	0.064"	1.63	RMDX6046D28	RCDX6016D28
CDC PIN22939200	-		0.090"	2.29	0.048"	1.22	0.011"	0.064"	1.63	RMDX6050D28	RCDX6016D28
CDC PIN245670000	-		0.104"	2.64	0.067"	1.7	0.011"	0.083"	2.11	RMDX6050D28	RCDX6016D28
ampex	-		0.114"	2.9	0.075"	1.91	0.014"	0.090"	1.29	RMDX6032D28	RCDX6032D28
TI PN 920580	-		0.070"	1.78	0.038"	0.96	0.018"	0.054"	1.37	RMDX6024D28	RCDX6024D28
Honeywell PN 58000062	-		0.120"	3.05	0.077"	1.96	0.016" solid	0.096"	2.44	RMDX6026D28	RCDX6026D28
-	-		0.104"	2.64	0.067"	1.7	0.011"	-	2.11	RMDX6050D28	-
-	-		0.090"	2.29	0.048"	1.22	0.011"	-	1.63	RMDX6050D28	-
-	-		0.114"	2.9	0.075"	1.91	0.014"	-	1.29	RMDX6032D28	RCDX6032D28
-	-		0.070"	1.78	0.038"	0.96	0.018"	-	1.37	RMDX6024D28	RCDX6024D28
-	-		0.120"	3.05	0.077"	1.96	0.016"	-	2.44	RMDX6026D28	RCDX6026D28

**Twisted Cable - Contact Monocrimp and Multipiece**

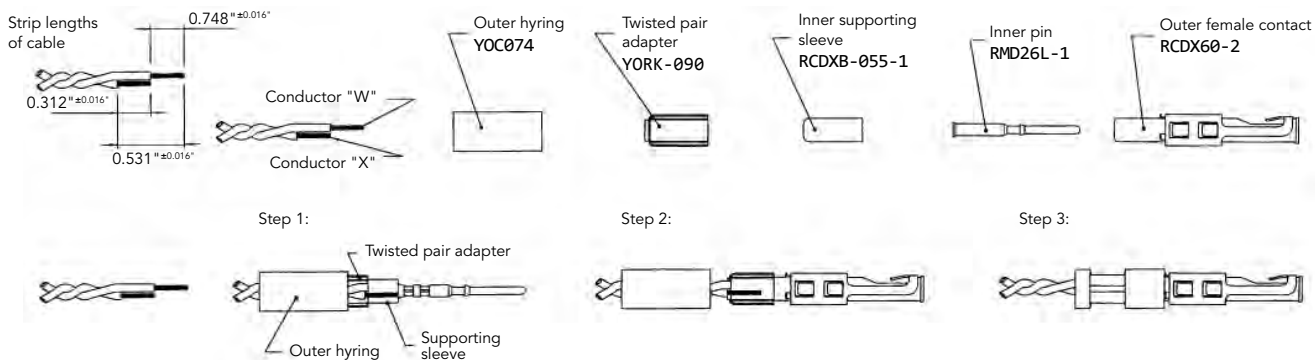
Cable type	Contact type	Inner AWG cond	Ø over jacket (single wire)		Inner cond size		Ø outer braid		Male contact kit for coaxial cable	Female contact kit for coaxial cable
			inch	mm	Stranded definition	Ext. Ø inch	inch	mm		
2#24 stranded MIL-W-16878 type B	Multi piece	24	0.049"	1.24 max	7/.008		-	-	RMDXK1ØD28	RCDXK1D28
2 #24 solid MIL-W-76 type LW		24	0.047"	1.12 max	1/.0201		-	-	RMDXK1ØD28	RCDXK1D28
2 #26 stranded MIL-W-76 type LW or MIL-W-16878 type B&E		26	0.043"	1.09 max	7/.0063	0.006"	-	-	RMDXK1ØD28	RCDXK1D28
2 #28 solid MIL-W-81822/3		28	0.028"	0.71 max			-	-	RMDXK1ØD28	RCDXK1D28
Twisted pair 1/.201 solid MIL-W-76 type LW or MIL-W-16878		26	0.044"	1.12 max	1/.0201	0.020"	-	-	RMDXK1ØD28	RCDXK1D28
Twisted pair solid MIL-W-81822/3		28	0.028"	0.71 max	1/.0126	0.012"	-	-	RMDXK1ØD28	RCDXK1D28
#28 7/.0036 per Hitachi spec ec-711 (13-2820)	Mono crimp	-	0.046"	1.17	7/.0036	-	-	-	RMDX6Ø31D28 + YØRXØ9Ø	RCDX6Ø31D28 + YØRXØ9Ø
20218201		-	0.028"	0.71	-	-	-	-	RMDX6Ø31D28 + YØRXØ9Ø	RCDX6Ø31D28 + YØRXØ9Ø
#30 solid		-	0.025"	0.64	-	-	-	-	RMDX6Ø15D28 + YØRXØ9Ø	RCDX6Ø15D28 + YØRXØ9Ø
#26 7/.0063		26	0.028"	0.71	7/.063	0.006"	-	-	RMDX6Ø31D28 + YØRXØ9Ø	RCDX6Ø31D28 + YØRXØ9Ø
#26 19/.004		26	0.049"	1.24	19/.004	-	-	-	RMDX6Ø19D28 + YØRXØ9Ø	RCDX6Ø19D28 + YØRXØ9Ø
#24 7/.008		24	0.049"	1.24	7/.008	-	-	-	RMDX6Ø19D28 + YØRXØ9Ø	RCDX6Ø19D28 + YØRXØ9Ø
#24 19/.005		24	0.057"	1.45	19/.005	-	-	-	RMDX6Ø19D28 + YØRXØ9Ø	RCDX6Ø19D28 + YØRXØ9Ø
-		26	0.049"	1.25	-	-	0.748" x 0.003"	19x0.1	RMDX6Ø19D28 + YØRXØ9Ø	RCDX6Ø19D28 + YØRXØ9Ø
-		24	0.049"	1.25	-	-	0.275" x 0.007"	7x0.2	RMDX6Ø19D28 + YØRXØ9Ø	RCDX6Ø19D28 + YØRXØ9Ø
-		24	0.057"	1.45	-	-	0.748" x 0.005"	19x0.13	RMDX6Ø19D28 + YØRXØ9Ø	RCDX6Ø19D28 + YØRXØ9Ø
-		26	0.027"	0.7	-	-	0.275" x 0.006"	7x0.16	RMDX6Ø31D28 + YØRXØ9Ø	RCDX6Ø31D28 + YØRXØ9Ø

# #16 Coaxial Contacts (Continued)

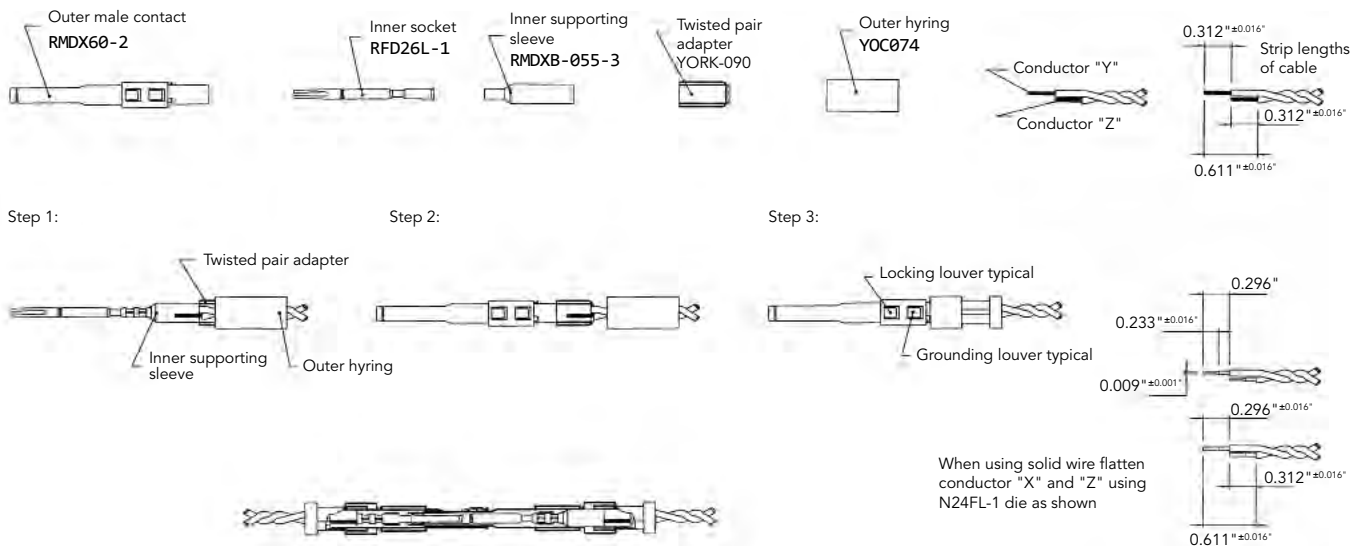
## Twisted Pair Cable Multipiece Contact Cabling

Cable reference	Contact type	Male contact	Female contact	Crimp tool	Die set	Stop bushing	Cable strip length			Inner conductor crimp		Braid crimp	
							A	B	C	g dim	t dim	g dim	t dim
2#24 stranded mil w 16878 type B	Multi piece	RMDXK10D28	RCDXK1D28	M10S1J	-	-							
2 #24 solid mil-w-76 type LW													
2 #26 stranded mil w 76 type LW or mil w16878 type B & E													
2 #28 solid mil-w-81822/3													
twisted pair 1/.201 solid mil w 76 type LW or mil w 16878													
twisted pair solid mil w 81822/3													

### Female contact



### Male contact



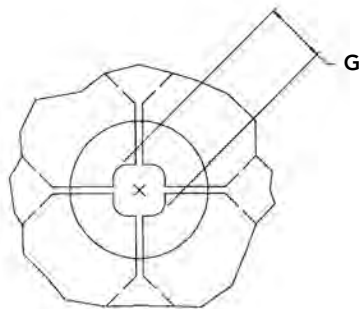
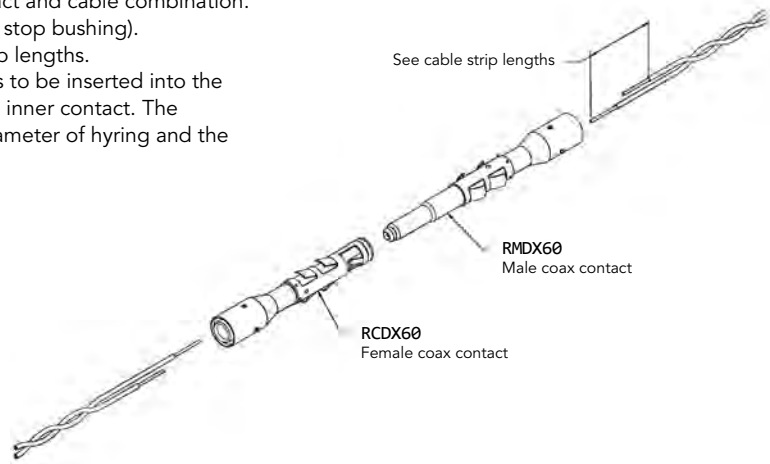
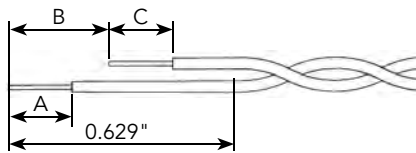
Note: all dimensions are in inches

### Twisted Pair Cable Monocrimp Contact Cabling

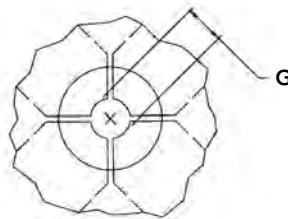
Cable reference	Contact type	Male contact	Female contact	Crimp tool	Die set	Stop bushing	Cable strip length			Inner conductor crimp		Braid crimp		
							A	B	C	g dim	t dim	g dim	t dim	
#28 7/.0036 per Hitachi spec ec-711 (13-2820)	Mono crimp	RMDX6031D28 + YORX090	RCDX6031D28 + YORX090	M10S1J	S80	SL105	0.185"	0.240"	0.170"	0.051" to 0.044"	0.055" to 0.048"	0.116" to 0.111"	0.120" to 0.114"	
20218204							0.155"	0.240"	0.124"	0.051" to 0.046"	0.055" to 0.048"	0.116" to 0.111"	0.120" to 0.109"	
#30 solid							0.185"	0.240"	0.159"	0.048" to 0.044"	0.053" to 0.048"	0.116" to 0.111"	3.12 to 0.116"	
#26 7/.0063							0.185"	0.240"	0.159"	0.051" to 0.046"	0.055" to 0.048"	0.116" to 0.111"	0.120" to 0.114"	
#26 19/.004							M10SG8 ASSY'Y TOOL DIE SET STOP BUSHING M10S1J TOOL	0.185"	0.240"	0.159"	0.048" to 0.046"	0.053" to 0.048"	0.111" to 0.109"	0.122" to 0.116"
#24 7/.008								0.185"	0.240"	0.159"	0.048" to 0.046"	0.053" to 0.048"	0.111" to 0.109"	0.122" to 0.116"
#24 19/.005								0.185"	0.240"	0.159"	0.048" to 0.046"	0.053" to 0.048"	0.111" to 0.109"	0.122" to 0.116"
26 AWG (19x0.1)							M10SG8 crimping kit	0.185"	0.236"	0.157"				
24 AWG (7x0.2)														
24 AWG (19x0.13)														
26 AWG (7x0.16)														

- Select appropriate monocrimp coax twisted pair contact and cable combination.
- Select appropriate crimp tooling (hand tool, S-die set, stop bushing).
- Strip the twisted pair cable to the designated wire strip lengths.
- Insert the stripped cable into the contact. One cable is to be inserted into the inside diameter of hyring, and pushed forward into the inner contact. The second cable is to be inserted between the outside diameter of hyring and the inside diameter of the outer contact body.
- Crimp the contact.

Cable strip length



Braid crimp (G) to be measured with die set fully closed



Inner conductor crimp (G) to be measured with die set fully closed

Note: all dimensions are in inches

## #16 Coaxial Contacts (Continued)

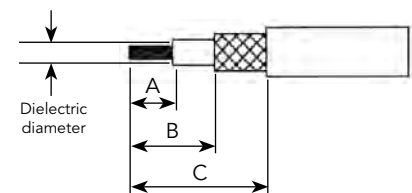
### Multipiece Male Contact with Coax Cable

Cable reference	Contact	Hyring complementary compoments	Outer contact crimp tool		Inner contact crimp tool		Cable strip length			
			Crimp tool M10S1J		Crimp tool M10S1J					
			Die set	Stop bushing	Die set	Stop bushing	A	B	C	
RG161U	Male: RMDXK10D28	YOC074	S221	SL471	S23D2	SL46D2	0.172"	0.312"	0.625"	
RG179							0.172"	0.312"	0.625"	
RG187U							0.172"	0.312"	0.625"	
RG188/U		YOC074 + RMDXB0553			S23D2		0.172"	0.312"	0.625"	
RG174/U							S26D2	0.172"	0.312"	0.625"
RG178A/U							S23D2	0.296"	0.359"	0.690"
RG196U		YOC074			-		0.296"	0.359"	0.690"	
AMPHENOL 21-598					-		0.172"	0.312"	0.625"	
surprenant pn 8134					-		0.172"	0.312"	0.625"	

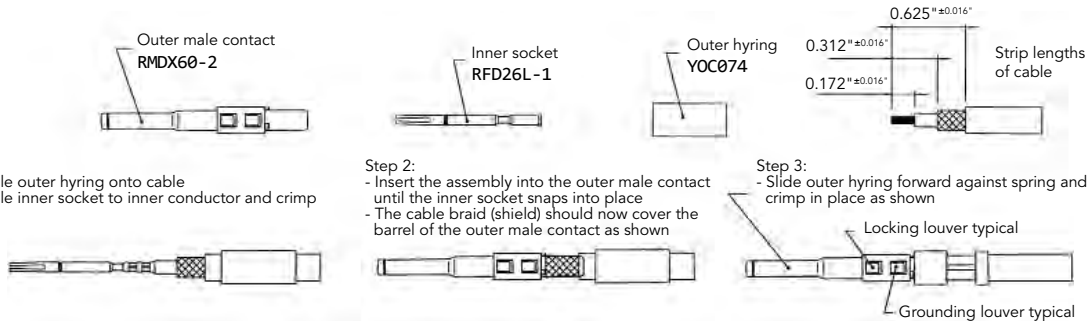
#### Multipiece kit details

RMDXK10D28 includes	RMDX602D28	Outer contact
	RFD26L1D28	Inner contact
	YOC074	Outer hyring
	RMDXB0553	Inner supporting sleeve

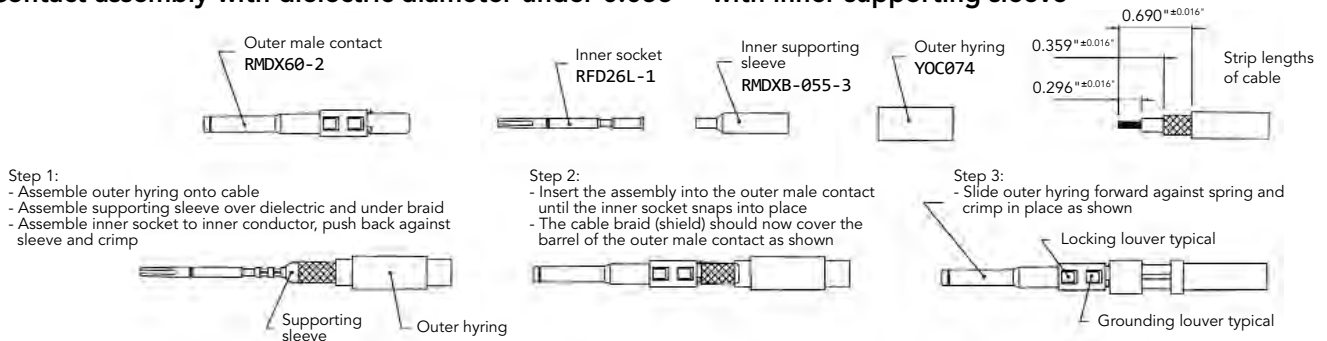
#### Cable strip length



#### Contact assembly with dielectric diameter over 0.055" - without inner supporting sleeve



#### Contact assembly with dielectric diameter under 0.055" - with inner supporting sleeve



Note: all dimensions are in inches

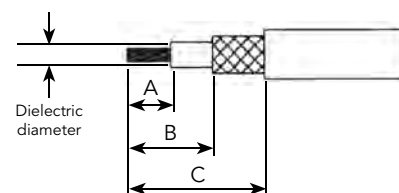
### Multipiece Female Contact with Coax Cable

Cable reference	Contact	Hyring complementary compoments	Outer contact crimp tool		Inner contact crimp tool		Cable strip length		
			Crimp tool M10S1J		Crimp tool M10S1J				
			Die set	Stop bushing	Die set	Stop bushing	A	B	C
RG161U	Female: RCDXK1D28	YOC074	S221	SL471	S23D2	SL46D2	0.172"	-	0.438"
RG179							0.172"		0.438"
RG187U							0.172"		0.438"
RG188/U							0.172"		0.438"
RG174/U		YOC074 + RMDXB0553			0.172"		0.438"		
RG178A/U					S23D2		0.250"		0.438"
RG196U					0.250"		0.438"		
AMPHENOL 21-598		YOC074			-		0.172"		0.438"
surprenant pn 8134					-		0.172"		0.438"

Multipiece kit details

RCDXK1D28 includes	RCDX602D28	Outer contact
	RMD26L1D28	Inner contact
	YOC074	Outer hyring
	RCDXB0553	Inner supporting sleeve

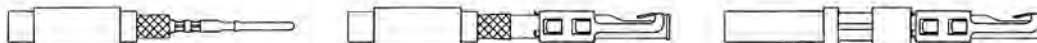
Cable strip length



Contact assembly with dielectric diameter over 0.055" - without inner supporting sleeve



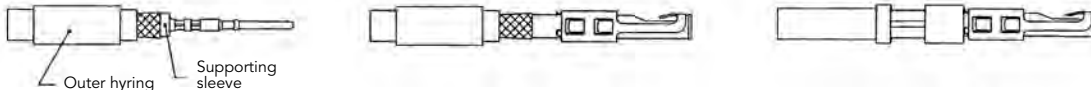
- Step 1:  
- Assemble outer hyring onto cable  
- Assemble inner pin to inner conductor and crimp
- Step 2:  
- Insert the assembly into the outer female contact until the inner pin snaps into place  
- The cable braid (shield) should now cover the barrel of the outer female contact as shown
- Step 3:  
- Slide outer hyring forward against spring and crimp in place as shown



Contact assembly with dielectric diameter under 0.055" - with inner supporting sleeve



- Step 1:  
- Assemble outer hyring onto cable  
- Assemble supporting sleeve over dielectric and under braid  
- Assemble inner pin to inner conductor, push back against sleeve and crimp
- Step 2:  
- Insert the assembly into the outer female contact until the inner pin snaps into place  
- The cable braid (shield) should now cover the barrel of the outer female contact as shown
- Step 3:  
- Slide outer hyring forward against spring and crimp in place as shown



Note: all dimensions are in inches

## #16 Coaxial Contacts (Continued)

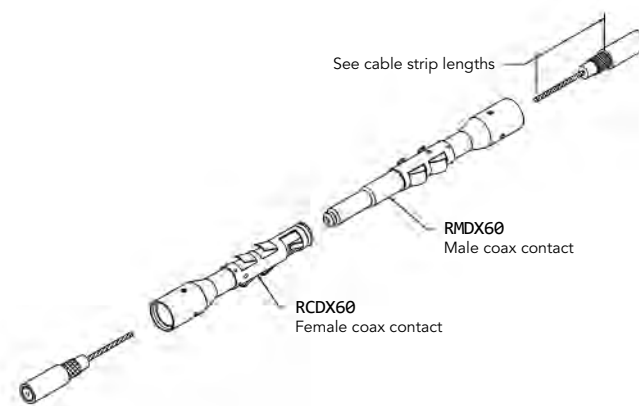
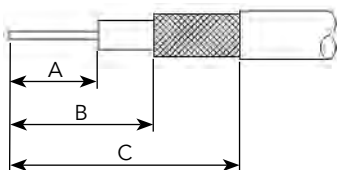
### Coax Cable with Monocrimp Contact Cabling

Cable reference	Male contact	Female contact	Crimp tool	Die set	Stop bushing	Cable strip length			Inner conductor crimp		Braid crimp		
						A	B	C	g dim	t dim	g dim	t dim	
CDC PIN22939200	RMDX6046D28	RCDX6016D28	M1051J	S80	SL105	0.164"	0.235"	0.335"	0.051"/0.046"	0.055"/0.048"	0.109"/0.103"	0.118"/0.111"	
CDC PIN22939200	RMDX6046D28	RCDX6016D28		S87	SL105	0.200"	0.250"	0.350"	0.051"/0.046"	0.055"/0.048"	0.109"/0.103"	0.118"/0.111"	
CDC PIN245670000	RMDX6050D28	RCDX6016D28		S80	SL105	0.200"	0.250"	0.350"	0.051"/0.046"	0.055"/0.048"	0.116"/0.111"	0.122"/0.116"	
KX21TVT (europe) RG178 B/U	RMDX6034D28	RCDX6034D28		S82	SL105	0.200"	0.250"	0.350"	0.051"/0.046"	0.051"/0.046"	0.111"/0.107"	0.120"/0.114"	
RG178 / BU	RMDX6050D28	RCDX6016D28		S87	SL105	0.200"	0.250"	0.350"	0.051"/0.046"	0.055"/0.048"	0.109"/0.103"	0.118"/0.111"	
ampex	RMDX6032D28	RCDX6032D28		S80	SL105	0.200"	0.250"	0.459"	0.051"/0.046"	0.055"/0.048"	0.116"/0.111"	0.122"/0.116"	
TI PN 920580	RMDX6024D28	RCDX6024D28		S82	SL105	0.200"	0.250"	0.350"	0.053"/0.046"	0.056"/0.050"	0.112"/0.107"	0.120"/0.114"	
RG174/U	RMDX6032D28	RCDX6032D28		S80	SL105	0.200"	0.250"	0.459"	0.051"/0.046"	0.055"/0.048"	0.116"/0.111"	0.122"/0.116"	
Honeywell PN 58000062	RMDX6026D28	RCDX6026D28		S82	SL105	0.200"	0.250"	0.350"	0.053"/0.046"	0.056"/0.050"	0.112"/0.107"	0.120"/0.114"	
RG188A/U	RMDX6036D28	RCDX6036D28		S80	SL105	0.200"	0.250"	0.459"	0.051"/0.046"	0.055"/0.048"	0.116"/0.111"	0.122"/0.116"	
RG316/U	RMDX6036D28	RCDX6036D28		S80	SL105	0.200"	0.250"	0.459"	0.051"/0.046"	0.055"/0.048"	0.116"/0.111"	0.122"/0.116"	
PRD PN 247AS-C1123-001	RMDX6018D28	RCDX6018D28		M105G8 ASSY'Y TOOL DIE SET STOP BUSHING M1051J TOOL			0.200"	0.250"	0.350"	0.048"/0.046"	0.053"/0.048"	0.114"/0.109"	0.122"/0.116"
PRD PN 247AS-C1251	RMDX6018D28	RCDX6018D28					0.200"	0.250"	0.350"	0.048"/0.046"	0.053"/0.048"	0.114"/0.109"	0.122"/0.116"
raychem 5024A3111	RMDX6052D28	RCDX6052D28		S88	SL105	0.200"	0.250"	0.459"	0.053"/0.050"	0.057"/0.051"	0.114"/0.109"		
raychem 5026e1614	RMDX6036D28	RCDX6036D28		M105G8 ASSY'Y TOOL DIE SET STOP BUSHING M1051J TOOL			0.200"	0.250"	0.350"	0.048"/0.046"	0.053"/0.048"	0.114"/0.109"	0.122"/0.116"
JUDD C15013010902	RMDX6036D28	RCDX6036D28					0.200"	0.250"	0.350"	0.048"/0.046"	0.053"/0.048"	0.114"/0.109"	0.122"/0.116"
inner cond. #30, braid diam 2.64	RMDX6050D28	-		S80	SL105	0.200"	0.250"	0.350"	-	-	-	-	
inner cond. #30, braid diam 2.29	RMDX6050D28	-		S87	SL105	0.165"	0.250"	0.334"	-	-	-	-	
inner cond. #28, braid diam 2.9	RMDX6032D28	RCDX6032D28		S80	SL105	0.200"	0.250"	0.460"	-	-	-	-	
inner cond. #26, braid diam 1.78	RMDX6024D28	RCDX6024D28		S82	SL105	0.200"	0.250"	0.350"	-	-	-	-	
inner cond. #26, braid diam 3.05	RMDX6026D28	RCDX6026D28	S82	SL105	0.200"	0.250"	0.350"	-	-	-	-		

0.164"

- Select appropriate cable and contact combination.
- Select appropriate crimp tooling (hand tool, S-die set, stop bushing).
- Strip coax cable to the designated wire strip lengths.
- Insert the stripped coax into the rear of the contact.
- Crimp the contact.

Cable strip length



Note: all dimensions are in inches

## Glossary of Terms

- **Clearance**

Per the IEC 60664-1 it is the shortest distance between two conductive parts even over the air.

- **Creepage distance**

Per the IEC 60664-1 it represents the shortest distance along the surface of the insulating material between two conductive parts.

- **Working voltage**

Per the IEC 60664-1 it is the highest r.m.s. value of A.C. or D.C. voltage across any particular insulation which can occur when the equipment is supplied at rated voltage.

- **Rated impulse voltage**

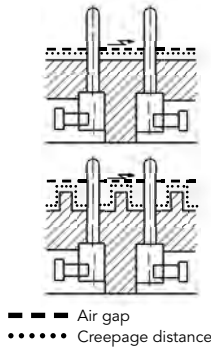
Impulse withstands voltage value assigned by the manufacturer to the equipment or to a part of it characterizing the specified withstand capability of its insulation against transient overvoltage.

- **Working current**

It is the maximum continuous and not interrupted current able to be carried by all contacts without exceeding the maximum temperature of the insulating material.

- **Transient voltage**

Extract from the IEC 60664-1: Short duration overvoltage of a few millisecond or less, oscillatory or non-oscillatory, usually highly damped.



- **CTI (Comparative Tracking Index)**

The CTI value is commonly used to characterize the electrical breakdown properties of an insulating material. It allows users to know the tendency to create creepage paths. This value represents the maximum voltage after 50 drops of ammonium chloride solution without any breakdown.

- **RTI (Relative temperature Index):**

Extract from ULs website:

Maximum service temperature for a material, where a class of critical property will not be unacceptably compromised through chemical thermal degradation, over the reasonable life of an electrical product, relative to a reference material having a confirmed, acceptable corresponding performance defined RTI.

- **RTI Elec:** Electrical RTI, associated with critical electrical insulating properties.

- **RTI Mech Imp:** Mechanical Impact RTI, associated with critical impact resistance, resilience and flexibility properties.

- **RTI Mech Str:** Mechanical Strength (Mechanical without Impact) RTI, associated with critical mechanical strength where impact resistance, resilience and flexibility are not essential.