## Prime Conduit, Inc.

Multi-Gard<sup>®</sup> Quick Reference Sheet



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Applications:						
Utility and	PVC - Outdoor	Galvanized/PVC-Coated Steel – Outdoor				
Telecommunication	<ul> <li>Direct Bury and Concrete Encased</li> </ul>	<ul> <li>Areas Subject to Physical Damage</li> </ul>				
	Fiberglass - Outdoor (UV Resistant)	– Vandalism & Crush				
	- Bridge Crossings	<ul> <li>Bridge Crossings</li> </ul>				
	- Areas Subject to Physical Damage	• EMT – Indoor				
	- Bullet Resistant	<ul> <li>Inside Buildings</li> </ul>				
		Boreable – Outdoor				
		- Horizontal Directional Drilled (See Bore-Gard® Info)				
Installation Methods:						
IMPORTANT:	It's <u>Always</u> recommended installing the bell end onto the spigot end. This prevents the innerducts from coming out of the outer duct.	Be Sure to Align Key Duct with Grooved Cell in Coupling Body Faceplate.				
Man Hole Terminations:	Always start by cutting the	Ŭ				
PVC Field Cutting: Joining Spigot and Bell Ends	<ol> <li>Lay sections side-by-side and mark the spigot end at the base of the bell end. Cut using a carpenter saw.</li> <li>A spare spacer may be installed to align the innerducts if they seem loose.</li> <li>Re-Chamfer the innerducts after cutting.</li> </ol>	<ol> <li>Raise both ends and align the innerducts into the coupling body. Lower both ends and the innerducts will automatically return to their original position.</li> <li>Note: Recommend using a 4X4, Hammer, and Oil/Sprayer.</li> </ol>				
PVC Field Cutting: Part No. (M_ C C _ ) Joining Two Spigot Ends	1. Flush cut sections "A" + "B". Slide outer duct sleeve over section "B". Insert end spacer into plain end (chamfer side in). Press couplings onto innerducts of section "B"	2. Align innerducts on section "A" with couplings on section "B". Solvent cement each coupling for air tight seal and push until both ends are flush. Apply solvent cement to both ends of Multi-Gard and slide sleeve until it is centered on both sections. Twist to get good cement coverage.				
PVC: Terminations	<ol> <li>Standard Terminations allow Multi-Gard to be terminated into a standard pre-cast termination Part No. (M_T 1_).</li> <li>Use a Type 1 Standard Terminator also at an entrance where a pre-cast terminator is not available or a knockout is used Part No. (M_T1_).</li> </ol>	3. The Pass-Through Terminator is designed to allow for continuous ducts through the vault or hand hole for cable pulling. Part No. $(M_T T 2_)$ 4. Use the Jet Terminator for jetting operations. Part No. $(M_T T 9_)$				
PVC: Direct Bury	IMPORTANT: Always Instal					
PVC: Plowing	PVC: Concrete Encased	Fiberglass: Bridge Crossings				
Galvanized/PVC Coated Steel: Joining Spigot and Bell Ends	<ol> <li>Lay sections side-by-side and mark the spigot end at the base of the bell. Cut using a hack saw or any other means capable of cutting steel.</li> <li>Re-thread conduit with standard straight threads. Note: It's recommended to apply a spray on galvanizing coating to the threads to prevent corrosion.</li> </ol>	3. Raise both ends and align the innerducts into the coupling body. Lower both ends and the innerducts will automatically return to their original position.				
Galvanized/PVC Coated Steel: Bridge Crossings	EMT: Inside Buildings					

Technical Information:					
PVC:		OD	ID	Wall	
	Type 40:	4.50"	4.67"	0.227"	
	Type 80:	4.75"	5.00"	0.360"	
	Type C:	4.35"	5.50"	0.154"	
Fiberglass:	<ul> <li>UV Resistant</li> </ul>				
	<ul> <li>Wall Thickness: • Standard Wall: .070"</li> </ul>				
	<ul> <li>Heavy Wall: .090"</li> </ul>				
	Bullet-Resistant: .250"				
Galvanized/	N/A				
PVC-Coated Steel:					
EMT:	<ul> <li>Conforms to NEC Article 300.22 &amp; NFPA 90A</li> </ul>				
	for Installation of Communication Cables				
Innerducts:	– 3-Way: 1.50" I.D. 1.66" O.D.				
	– 4-Way: 1.19" I.D. 1.31" O.D.				
<ul> <li>Multi-Gard Joint Tensile: Approximately 500 lb. (For Reference Only)</li> </ul>					
<ul> <li>Always Recommend Polywater for Jobs 1,000 Ft. or Greater.</li> </ul>					
• 3,500 Ft. Maximum Length for Jetting					
Listings/Ratings:					
PVC:	<ul> <li>UL Listed &amp; ETL Listed: Type 40 and Type C</li> </ul>				
Fiberglass:	N/A				
Galvanized/					
PVC-Coated Steel:	N/A				
EMT:	<ul> <li>UL Listed Electron</li> </ul>	trical Me	tallic Tubi	ng Outer Shell	

Catalog Offering:						
Part No: M_SS_S-020 *Example: MXSS4S-020						
Position 2	Position 2		Position 5			
X = Type C	H = Heavy Wa Fiberglass	II	3 = 3-Way Innerducts			
F = Type 40	B = Bullet Resistant Fiberglass		4 = 4-Way Innerducts			
D = Type 80	R = Galvanized Steel					
S = Standard	P = PVC-Coated					
Fiberglass	Steel					
	E = EMT					
*See Master Catalog for a complete list of part numbers.						
Boreable Multi-Gard: See Bore-Gard presentation/information.						
Catalog Offering – Accessories:						
<ul> <li>Fixed Bends (N</li> </ul>	1N_S)	<ul> <li>Expansion Joints (M_ EC _ )</li> </ul>				
<ul> <li>Flexible Bends</li> </ul>	(M_F)	<ul> <li>Repair Kits (M_ R S)</li> </ul>				
<ul> <li>Terminators (M_T_)</li> </ul>		<ul> <li>Spacers (Spare) (MAES_)</li> </ul>				
<ul> <li>Couplings (M_ C C _ )</li> </ul>		<ul> <li>Transition Adapters (M_ A )</li> </ul>				
*See Master Catalog for a complete list of part numbers.						