



MULTI-GARD® PVC RACEWAY

MultiGard PVC is a multi-cell raceway system for direct burial and concrete encasement applications. 20' lay length sections of 4" PVC outer shell Type C, Type 40, or Type 80 have either 3 x 1-1/2" or 4 x 1-1/4" nominal prelubed PVC innerducts preinstalled.

In addition, all fixed and patented flexible bends utilize "cutthrough" resistant engineered plastic innerducts" Many other accessories for terminating, pulling cable, jetting cable, and directional boring are available.

Features:

- Prelubricated innerducts provide very low coefficient of friction for easy pulls, and PVC innerducts expand and contract at the same rate as outerduct.
- Anti-reversing gaskets on coupling body allow for easy joining. Eliminates need for cementing joints except in boring or jetting applications.
- Jettable using high speed air blowing systems.
- O-ring gasket at base of bell reduces risk of water entering system.
- Inward tapering holes on coupling body give quick and easy innerduct alignment.
- Print line on outer duct states "Install Print Line Up" to keep system straight during installation.
- Marked innerduct and marked hole on coupling body ensure proper innerduct alignment and allow crews to work from opposite directions.
- Terminators for standard, pullthrough, and jetthrough applications.
- Standard and slip sleeve couplings for field cuts and repairs.
- Field repair kit for outershell and innerducts allows repair without taking cable out of service.
- Transition adaptors allow transition between different outerducts.
- 6" deep bell provides strong joint for field bends.
- Internal spacers maintain straight innerduct path.
- End caps are provided on each 20 ft" section.
- Staging materials to job site is simplified.
- Patented flexible bends allow changes in direction.

Multi-Gard Type C and Type 40 are U.L. listed

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www.carlon.com



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Part Numbers 20' Lay Length Sections PVC Multi-Cell With Bell

Part No.	Description	Bell (A) Dim.	Outerduct (B) Dim.	Innerduct O.D. Dim	Innerduct I.D. Dim.	Pkg. Qty.	Wt. per/100 (lbs.)
MXSS4S-020	4-Cell Type C	4.67	4.35	1.31	1.19	1060'	245
MXSS3S-020	3-Cell Type C	4.67	4.35	1.66	1.50	1060'	256
MFSS4S-020	4-Cell Type 40	5.00	4.50	1.31	1.19	960'	338
MFSS3S-020	3-Cell Type 40	5.00	4.50	1.66	1.50	960'	348
MDSS4S-020	4-Cell Type 80	5.50	4.75	1.31	1.19	760'	450
MDSS3S-020	3-Cell Type 80	5.50	4.75	1.66	1.50	760'	460

Standard Multi-Gard supplied with grey and one white tracer innerduct. Add C for multi-colored innerducts.

(3-cell white/grey/orange) (4-cell white/grey/orange/green)

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MULTI-GARD® PVC RACEWAY

PVC Multi-Cell Fixed Bends With Bell

Multi-Gard fixed bends use the same coupling design as straight sections. All bends are provided with engineered plastic innerducts to avoid rope cut-through.

Part No.	Description	Pkg. Qty.	Wt. ea.
M ___ N4S	4-cell Fixed Bend 1.19 I.D.	*	*
M ___ N35	3-cell Fixed Bend 1.50 I.D.	*	*

Product	Outerduct		Degree(A)		Radius (R)		Cells	
	Pos. 2	Pos. 3	Pos. 3	Pos. 4	Pos. 5	Pos. 6	Pos. 7	
M = Multi-Cell	X = Type C	3 = 11-1/4	F = 3'					
	F = Type 40	5 = 22-1/2	H = 4'	N = 4"	4 = 4-Cell	S = Smooth		
	D = Type 80	7 = 45	J = 6'		3 = 3-Cell			
		9 = 90	M = 9'					



MULTI-GARD® PVC RACEWAY

PVC Multi-Cell Flexible Bends With Bell

Multi-Gard flexible bends use a patented design capable of a 4' minimum bend radius and use the same coupling design as straight sections and fixed bends. All bends are provided with engineered plastic innerducts to avoid rope cut-through.

Part No.	Description	Pkg. Qty.	Wt. ea.
M _ F _ 4 _	4-cell Flexible Bend 1.19 I.D.	*	*
M _ _ _ N35	3-cell Flexible Bend 1.50 I.D.	*	*

Product Pos. 1	Outerduct Pos. 2	Pos. 3	Degree and Radius (R) Pos. 4	Cells Pos.5	Pos.6
M = Multi-Cell	X = Type C F = Type 40	Flexible	B = 126" (Length) 4' x 90° C = 192" (Length) 6' x 90°	4 = 4-Cell 3 = 3-Cell	_ = Standard J = Jet

* Pkg. Qty. and Wt. ea.

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Accessories Terminators PVC Multi-Cell

Termination kits allow for sealing inner and outerducts. Each kit contains innerduct sealing plugs with rope tie. Standard terminators allow for end terminations, and pass-through (jet-through) terminators allow for bridging innerducts across a vault to allow for unassisted pulling (or jetting) of cable through the vault. Box terminators allow end terminations into aboveground cabinets.

Part No. 4-Cell	Part No. 3-Cell	Description	Pkg. Qty.	Wt. ea.
M _ T _ 4	M _ T _ 3	Terminator	*	*

Product Pos. 1	Outerduct Pos. 2	Description Pos. 3	Type Pos. 4	Cells Pos. 5
M = Multi-Cell	X = Type C F = Type 40 D = Type 80	T = Terminator	1 = Standard w/ plugs 2 = Pass-through w/ plugs 6 = Enclosure Termin. w/ plugs 9 = Jetting Termin. w/ plugs	3 = 3-Cell 4 = 4-Cell



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Couplings PVC Multi-Cell

Couplings are provided in standard sleeve for joining two uninstalled plain ends and slip couplings for male/male connections and repair of unoccupied Multi-Gard.

Part No. 4-Cell	Part No. 3-Cell	Description	Pkg. Qty.	Wt. ea.
M _ CC4	M _ CC3	Standard Sleeve Coupling	*	*
M _ SC4	M _ SC3	Slip Coupling	*	*

Pos. 1	Pos. 2	Pos. 3	Pos. 4	Pos. 5
M = Multi-Cell	X = Type C F = Type 40 D = Type 80	C = Standard Coupling S = Slip Coupling	C = Coupling	3 = 3-Cell 4 = 4-Cell



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Transition Adaptors

Transition adaptors allow different outerducts to be coupled together while maintaining same innerduct.

Part No.	Description	Pkg. Qty.	Wt. ea.
M _ A _ _	Transition Adaptors	*	*

Product Pos.1	Outerduct Pos. 2	Pos. 3	Outerduct Pos. 4	Cells Pos. 5
M = Multi-Cell	X = Type C F = Type 40 D = Type 80	A = Adapter	E = EMT R = Galv. Steel B = F/G BR H = F/G HW S = F/G Std. F = Type 40 PVC D = Type 80 PVC	3 = 3-Cell 4 = 4-Cell



MULTI-GARD® PVC RACEWAY

Repair Kits Multi-Gard PVC 10'

Repair kits allow for Multi-Gard repair without disrupting a live cable

Part No.	Description	Pkg. Qty.	Wt. ea.
M _ R _ 4	4-Cell 10 ft. Repair - Cable installed	*	*
M _ R _ 3	3-Cell 10 ft. Repair - Cable installed	*	*

Product	Outerduct		No. of Cables		Cells
Pos. 1	Pos. 2	Pos. 3	Pos. 4	Pos. 5	
			1 = 1 Cable		
M = Multi-Cell	X = Type C	R = Repair	2 = 2 Cables	3 = 3-Cell	
	F = Type 40		3 = 3 Cables	4 = 4-Cell	
			4 = 4 Cables		

Pkg. Qty. and Wt. ea.



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Drop Kit for Multi-Gard PVC

Drop kit allows Multi-Gard with cable installed to be lowered for newly installed utilities in a minimum distance using Carlon split-duct. Greatly reduces the cost in time and manpower especially if concrete encasing afterward.

Part No.	Description	Pkg. Qty.	Wt. ea.
M _ D _ _ 010	Drop Kit for lowering	1	*

Product Pos. 1	Outerduct Pos. 2	Description Pos. 3	Type Pos. 4	Cells Pos. 5
M = Multi-Cell	X = Type C PVC F = Type 40 PVC	D = Drop Kit	1 = 1 Cable 2 = 2 Cables 3 = 3 Cables 4 = 4 Cables	3 = 3-Cell 4 = 4-Cell

Wye Branch for Multi-Gard PVC

Wye branches allow individual Multi-Gard innerducts to be offset for independent access to cable. Used especially in innerduct leasing application.

Part No.	Description	Pkg. Qty.	Wt. ea.
M _ Y _	Wye Branch	1	*

Product Pos. 1	Outerduct Pos. 2	Description Pos. 3	Cells Pos. 4
M = Multi-Cell	X = Type C PVC F = Type 40 PVC	Y = Wye Branch	3 = 3-Cell 4 = 4-Cell

Pkg. Qty. and Wt. ea.