

Rejuvenation Instructions

#432 – IA Reference Table



This NRI covers the following:

- How to select cables and components using Novinium's injection adapter (IA) reference table.

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WARNING: It is dangerous working around energized high-voltage systems, pressurized systems, and chemicals. Always work in accordance to the Novinium Field Operations Safety Handbook (FOSH) or other local governing safety standards.

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The Injection Adapter (IA) Name

- The injection adapter (IA) name consists of two numbers that are a code for size and are independent of each other.
- The first number is the insulation size and the second number is the connector size. It is written as #-# (e.g., 1-2).
- As the numbers increase, the side's diameter range typically increases as well. (e.g., IA 3-2 has an insulation range of 0.750-0.830" and IA 4-2 has an insulation range of 0.845-0.905").

What the IA Reference Table Can Tell You

The IA Reference Table shows the following important information for each standard IA:

- Which IA to use for a specific cable.
- An IA's insulation and connector ranges.
- Which swage dies to use with the IA.
- An IA's gap and overlap lengths (important for cutbacks and allowed lengths).
- Which V-spacer to use for aligning the Tool Stop.

How to Use the IA Reference Table

- To use the IA reference table, you need to know the cable insulation outside diameter and the connector barrel outside diameter.
- Search for the insulation range that includes the cable insulation diameter.
- Search for the connector range that includes the connector diameter.
- The number combination is the optimal IA. For extra insurance, use an IA that catches slightly larger and smaller cable insulations. Take note of the swage dies and V-spacers needed for these IAs.

IA REFERENCE TABLE 15 April 2016

IA	1-1	1-2	2-2	3-2	3-3	4-2	5-2	5-3	5-4	6-2
Ins Die	0742 (W/W)	0742 (W/W)	0842 (W/G)	0842 (W/G)	0842 (W/G)	0942 (W/R)	1042 (W/B)	1042 (W/B)	1042 (W/B)	1042 (W/B)
Lug Die	0742 (W/W)	0742 (W/W)	0742 (W/W)	0742 (W/W)	0842 (W/G)	0742 (W/W)	0742 (W/W)	0842 (W/G)	0942 (W/R)	0742 (W/W)
Gap	3/8" (0.38")	3/8" (0.38")	3/8" (0.38")	3/8" (0.38")	3/8" (0.38")	5/8" (0.58")	9/16" (0.56")	5/8" (0.59")	1/2" (0.47")	5/8" (0.58")
Overlap	15/16" (0.91")	15/16" (0.92")	15/16" (0.92")	15/16" (0.92")	15/16" (0.92")	7/8" (0.83")	7/8" (0.84")	13/16" (0.82")	15/16" (0.92")	7/8" (0.83")
Ins Range	.525-.640	.635-.700	.640-.750	.750-.830	.750-.830	.845-.905	.910-.990	.910-.990	.910-.990	0.910-1.060
Lug Range	.520-.660	.620-.700	.620-.700	.620-.700	.720-.825	.620-.700	.620-.700	.720-.825	.820-.925	0.620-0.700
O-Rings	17,18	17,18	18,18	20,18	20,20	21,18	23,18	23,20	23,22	24,18
Spacer	0.88" (Gray)	0.88" (Gray)	0.88" (Gray)	0.69" (White)	0.88" (Gray)	0.69" (White)	0.69" (White)	0.69" (White)	0.69" (White)	0.69" (White)
IA	6-3	6-4	7-2	7-3	7-4	7-6	7-8	8-2	8-8	9-6
Ins Die	1042 (W/B)	1152 (G/G)	1152 (G/G)	1152 (G/G)	1152 (G/G)	1152 (G/G)	1262 (G/R)	1152 (G/G)	1262 (G/R)	1262 (G/R)
Lug Die	0842 (W/G)	0942 (W/R)	0742 (W/W)	0842 (W/G)	0942 (W/R)	1152 (G/G)	1262 (G/R)	0742 (W/W)	1262 (G/R)	1262 (G/R)
Gap	5/8" (0.57")	1/2" (0.48")	9/16" (0.56")	9/16" (0.54")	9/16" (0.55")	3/8" (0.38")	7/16" (0.40")	9/16" (0.55")	7/16" (0.40")	7/16" (0.40")
Overlap	7/8" (0.83")	13/16" (0.81")	7/8" (0.85")	7/8" (0.84")	7/8" (0.86")	1-1/16" (1.03")	15/16" (0.95")	7/8" (0.85")	15/16" (0.95")	15/16" (0.95")
Ins Range	0.910-1.060	.980-1.060	1.040-1.145	1.040-1.145	1.040-1.145	1.040-1.145	1.040-1.145	1.100-1.190	1.100-1.190	1.175-1.280
Lug Range	0.720-0.825	.820-.925	.620-.700	.720-.825	.820-.925	1.070-1.160	1.290-1.325	.620-.700	1.290-1.325	1.070-1.160
O-Rings	24,20	24,22	24,18	24,20	24,22	24,25	24,27	25,18	25,27	26,25
Spacer	0.69" (White)	0.88" (Gray)	0.69" (White)	0.69" (White)	0.69" (White)	0.69" (White)	0.69" (White)	0.69" (White)	0.69" (White)	0.69" (White)
IA	10-2	10-8	11-8	11-9	11-10	11-12	12-8	12-9	12-10	12-12
Ins Die	1382 (G/P)	1382 (G/P)	1498 (G/B)	1498 (G/B)	1498 (G/B)	1498 (G/B)	1598 (R/R)	1598 (R/R)	1598 (R/R)	1598 (R/R)
Lug Die		1382 (G/P)	1382 (G/P)	1382 (G/P)	1598 (R/R) / 1382 (G/P)	1888 (P/P)	1382 (G/P)	1382 (G/P)	1598 (R/R) / 1382 (G/P)	1772 (R/B)
Gap	5/8" (0.57")	3/8" (0.35")	7/16" (0.40")	3/8" (0.35")	3/8" (0.35")	7/16" (0.43")	7/16" (0.40")	7/16" (0.40")	3/8" (0.35")	11/16" (0.67")
Overlap	7/8" (0.83")	15/16" (0.95")	15/16" (0.95")	1-1/16" (1.07")	1-1/16" (1.07")	1-1/16" (1.07")	15/16" (0.95")	1" (1.00")	1-1/16" (1.07")	1" (1.00")
Ins Range	1.260-1.380	1.250-1.340	1.400-1.525	1.380-1.525	1.380-1.525	1.380-1.525	1.525-1.650	1.480-1.610	1.480-1.610	1.480-1.610
Lug Range	0.620-0.700	1.290-1.325	1.310-1.410	1.310-1.410	1.520-1.650	1.780-1.870	1.310-1.410	1.310-1.410	1.520-1.660	1.780-1.870
O-Rings	28,18	28,28	30,29	30,29	30,31	30,33	31, 29	29,31	31,31	31,33
Spacer	0.88" (Gray)	0.88" (Gray)	0.69" (White)	0.69" (White)	0.69" (White)	0.69" (White)	0.69" (White)	0.69" (White)	0.88" (Gray)	0.88" (Gray)
IA	13-10	13-12	14-10	14-12						
Ins Die	1772 (R/B)	1772 (R/B)	1888 (P/P)	1888 (P/P)						
Lug Die	1682 (R/P)	1772 (R/B)	1598 (R/R) / 1382 (G/P)	1888 (P/P)						
Gap	3/8" (0.35")	7/16" (0.43")	1/2" (0.48")	15/16" (0.90")						
Overlap	1" (0.98")	1-3/16" (1.13")	15/16" (0.95")	3/4" (0.75")						
Ins Range	1.640-1.740	1.640-1.760	1.780-1.870	1.780-1.870						
Lug Range	1.520-1.670	1.740-1.850	1.520-1.650	1.780-1.870						
O-Rings	32,31	32,33	33,31	33,33						
Spacer	0.69" (White)	0.69" (White)	0.88" (Gray)	0.88" (Gray)						
Color Codes: W=white, G=gold, R=red, P=purple, B=blue						Non-Stock	Picklist IA			