



# CRIMP OD & PRODUCT GUIDE



HOSE ID	HOSE OD	CRIMP OD	FERR/SLV WALL	PROGRIP FERR/SLV	C50** LENGTH	CS** LENGTH	PT CAM & GRV. COUPLER	PT CAM & GRV. ADAPTER	PROGRIP BODIES
.50	0.58	0.660	.049	05022C50**	1.3	1.3	E05C 05C CF50C	E05E 05E CF50E	
	0.60	0.676	.049	05022CS**					
	0.62	0.692	.049	(.688 ID)					
	0.64	0.707	.049	05024C50**					
	0.66	0.723	.049	05024CS**					
	0.68	0.738	.049	(.750 ID)					
	0.70	0.754	.049	05026C50**					
	0.72	0.770	.049	05026CS**					
	0.74	0.785	.049	(.813 ID)					
	0.76	0.801	.049						
	0.78	0.816	.049	05028C50**					
	0.80	0.832	.049	05028CS**					
	0.82	0.848	.049	(.875 ID)					
	0.84	0.863	.049	05030C50**					
	0.86	0.879	.049	05030CS**					
0.88	0.894	.049	(.938 ID)						
0.90	0.910	.049	05100C50**						
0.92	0.926	.049	05100CS**						
0.94	0.941	.049	(1.000 ID)						

HOSE ID	HOSE OD	CRIMP OD	FERR/SLV WALL	PROGRIP FERR/SLV	C50** LENGTH	CS** LENGTH	PT CAM & GRV. COUPLER	PT CAM & GRV. ADAPTER	PROGRIP BODIES
.75	0.96	1.012	.049	07102C50**	1.6	1.6	07C CF75C	07E CF75E	07TMC50
	0.98	1.027	.049	07102CS**					
	1.00	1.043	.049	(1.063 ID)					
	1.02	1.059	.049	07104C50**					
	1.04	1.074	.049	07104CS**					
	1.06	1.090	.049	(1.125 ID)					
	1.08	1.105	.049	07106C50**					
	1.10	1.121	.049	07106CS**					
	1.12	1.137	.049	(1.188 ID)					
	1.14	1.152	.049	07108C50**					
	1.16	1.168	.049	07108CS**					
	1.18	1.183	.049	(1.250 ID)					
	1.20	1.199	.049						
	1.22	1.215	.049	07110C50**					
	1.24	1.230	.049	07110CS**					
1.26	1.246	.049	(1.313 ID)						
1.28	1.261	.049	07112C50**						
1.30	1.277	.049	07112CS**						
1.32	1.293	.049	(1.375 ID)						

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1	1.20	1.254	.049	10110C50**	2.1	2.1	10C	10E	10TMC50
	1.22	1.270	.049	10110CS**			10CL	CF100E	10WC50
	1.24	1.285	.049	(1.313 ID)			CF100C		10VC50
	1.26	1.301	.049						10CC50
	1.28	1.316	.049	10112C50**					10EC50
	1.30	1.332	.049	10112CS**					10PFFC50
	1.32	1.348	.049	(1.375 ID)					10PFC50
	1.34	1.363	.049	10114C50**					
	1.36	1.379	.049	10114CS**					
	1.38	1.394	.049	(1.438 ID)					
	1.40	1.410	.049	10116C50**					
	1.42	1.426	.049	10116CS**					
	1.44	1.441	.049	(1.500 ID)					
	1.46	1.457	.049	10118C50**					
	1.48	1.472	.049	10118CS**					
	1.50	1.488	.049	(1.563 ID)					
	1.52	1.504	.049	10120C50**					
	1.54	1.519	.049	10120CS**					
	1.56	1.535	.049	(1.625 ID)					
	1.58	1.550	.049	10122C50**					
	1.60	1.566	.049	10122CS**					
	1.62	1.582	.049	(1.688 ID)					
	1.64	1.597	.049	10124C50**					
	1.66	1.613	.049	12124CS**					
1.68	1.628	.049	(1.750 ID)						
1.70	1.644	.049	10126C50**						
1.72	1.660	.049	12126CS**						
1.74	1.675	.049	(1.813 ID)						
1.76	1.691	.049							
1.78	1.738	.065	10128C50**						
1.80	1.754	.065	12128CS**						
1.82	1.770	.065	(1.875 ID)						

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1.25	1.46	1.512	.049	12118C50**	2.1	2.1	12C	12E	12TMC50
	1.48	1.527	.049	10118CS**			10CL	CF120E	12WC50
	1.50	1.543	.049	(1.563 ID)			CF120C	12ESV	12VC50
	1.52	1.559	.049	12120C50**			12CSV		12CC50
	1.54	1.574	.049	10120CS**			12CSL		12EC50
	1.56	1.590	.049	(1.625 ID)					
	1.58	1.605	.049	12122C50**					
	1.60	1.621	.049	10122CS**					
	1.62	1.637	.049	(1.688 ID)					
	1.64	1.684	.065	12124C50**					
	1.66	1.700	.065	12124CS**					
	1.68	1.715	.065	(1.750 ID)					
	1.70	1.731	.065	12126C50**					
	1.72	1.747	.065	12126CS**					
	1.74	1.762	.065	(1.813 ID)					
	1.76	1.778	.065						
	1.78	1.793	.065	12128C50**					
	1.80	1.809	.065	12128CS**					
	1.82	1.825	.065	(1.875 ID)					
	1.84	1.840	.065	12130C50**					
1.86	1.856	.065	12130CS**						
1.88	1.871	.065	(1.938 ID)						
1.90	1.887	.065	12200C50**						
1.92	1.903	.065	15200CS**						
1.94	1.918	.065	(2.000 ID)						

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1.5	1.78	1.848	.065	15128C50**	2.2	2.1	15C	15E	15TMC50
	1.80	1.864	.065	12128CS**			15CL	15ESV	15WC50
	1.82	1.880	.065	(1.875 ID)			15CSL	CF150E	15VC50
	1.84	1.895	.065	15130C50**			15CSV		15CC50
	1.86	1.911	.065	12130CS**			CF150C		15EC50
	1.88	1.926	.065	(1.938 ID)					15PFFC50
	1.90	1.942	.065	15200C50**					15PFC50
	1.92	1.958	.065	15200CS**					
	1.94	1.973	.065	(2.000 ID)					
	1.96	1.989	.065	15202C50**					
	1.98	2.004	.065	15202CS**					
	2.00	2.020	.065	(2.063 ID)					
	2.02	2.036	.065	15204C50**					
	2.04	2.051	.065	15204CS**					
	2.06	2.067	.065	(2.125 ID)					
	2.08	2.082	.065	15206C50**					
	2.10	2.098	.065	15206CS**					
	2.12	2.114	.065	(2.188 ID)					
	2.14	2.129	.065	15208C50**					
	2.16	2.145	.065	15208CS**					
2.18	2.160	.065	(2.25 ID)						
2.20	2.176	.065	15210C50**						
2.22	2.192	.065	15210CS**						
2.24	2.207	.065	(2.313 ID)						
2.26	2.223	.065							
2.28	2.238	.065	15212C50**						
2.30	2.254	.065	15212CS**						
2.32	2.270	.065	(2.375 ID)						
2.34	2.285	.065	15214C50**						
2.36	2.301	.065	15214CS**						
2.38	2.316	.065	(2.438 ID)						

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2	2.20	2.286	.065	20210C50**	3.1	2.8	20C	20E	20TMC50
	2.22	2.302	.065	20210CS**			20CL	20ESV	20WC50
	2.24	2.317	.065	(2.313 ID)			20CSL	CF200E	20VC50
	2.26	2.333	.065				20CSV		20CC50
	2.28	2.348	.065	20212C50**			CF200C		20EC50
	2.30	2.364	.065	20212CS**					20PFFC50
	2.32	2.380	.065	(2.375 ID)					20PFC50
	2.34	2.395	.065	20214C50**					
	2.36	2.411	.065	20214CS**					
	2.38	2.426	.065	(2.438 ID)					
	2.40	2.442	.065	20216C50**					
	2.42	2.458	.065	20216CS**					
	2.44	2.473	.065	(2.500 ID)					
	2.46	2.489	.065	20218C50**					
	2.48	2.504	.065	20218CS**					
	2.50	2.520	.065	(2.563 ID)					
	2.52	2.536	.065	20220C50**					
	2.54	2.551	.065	20220CS**					
	2.56	2.567	.065	(2.625 ID)					
	2.58	2.582	.065	20222C50**					
	2.60	2.598	.065	20222CS**					
	2.62	2.614	.065	(2.688 ID)					
	2.64	2.629	.065	20224C50**					
	2.66	2.645	.065	20224CS**					
	2.68	2.660	.065	(2.750 ID)					
	2.70	2.676	.065	20226C50**					
	2.72	2.692	.065	20226CS**					
	2.74	2.707	.065	(2.813 ID)					
	2.76	2.723	.065						
	2.78	2.738	.065	20228C50**					
	2.80	2.754	.065	20228CS**					
	2.82	2.770	.065	(2.875 ID)					
2.84	2.785	.065	20230C50**						
2.86	2.801	.065	20230CS**						
2.88	2.816	.065	(2.938 ID)						
2.90	2.832	.065	20300C50**						
2.92	2.848	.065	25300CS**						
2.94	2.863	.065	(3.000 ID)						
2.96	2.879	.065	20302C50**						
2.98	2.894	.065	25302CS**						
3.00	2.910	.065	(3.063 ID)						
3.02	2.926	.065	20304C50**						
3.04	2.941	.065	25304CS**						
3.06	2.957	.065	(3.125 ID)						
3.08	2.972	.065							

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2.5	2.78	2.848	.065	25228C50**	3.1	2.8	25C	25E	25TMC50
	2.80	2.864	.065	20228CS**			25CL	25ESV	25WC50
	2.82	2.880	.065	(2.875 ID)			25CSL	CF250E	25VC50
	2.84	2.895	.065	25230C50**			25CSV		25CC50
	2.86	2.911	.065	20230CS**			CF250C		25EC50
	2.88	2.926	.065	(2.938 ID)					
	2.90	2.942	.065	25300C50**					
	2.92	2.958	.065	25300CS**					
	2.94	2.973	.065	(3.000 ID)					
	2.96	2.989	.065	25302C50**					
	2.98	3.004	.065	25302CS**					
	3.00	3.020	.065	(3.063 ID)					
	3.02	3.036	.065	25304C50**					
	3.04	3.051	.065	25304CS**					
	3.06	3.067	.065	(3.125 ID)					
	3.08	3.118	.083	25306C50**					
	3.10	3.134	.083	25306CS**					
	3.12	3.150	.083	(3.188 ID)					
	3.14	3.165	.083	25308C50**					
	3.16	3.181	.083	25308CS**					
	3.18	3.196	.083	(3.250 ID)					
	3.20	3.212	.083	25310C50**					
	3.22	3.228	.083	25310CS**					
	3.24	3.243	.083	(3.313 ID)					
	3.26	3.259	.083						
	3.28	3.274	.083	25312C50**					
	3.30	3.290	.083	25312CS**					
	3.32	3.306	.083	(3.375 ID)					
	3.34	3.321	.083	25314C50**					
	3.36	3.337	.083	25314CS**					
3.38	3.352	.083	(3.438 ID)						
3.40	3.368	.083	25316C50**						
3.42	3.384	.083	25316CS**						
3.44	3.399	.083	(3.500 ID)						
3.46	3.415	.083	25318C50**						
3.48	3.430	.083	25318CS**						
3.50	3.446	.083	(3.563 ID)						

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3	3.20	3.322	.083	30310C50**	3.5	3.5	30C	30E	30TMC50
	3.22	3.338	.083	30310CS**			30CHD	30EHD	30WC50
	3.24	3.353	.083	(3.313 ID)			30CL	30ESV	30VC50
	3.26	3.369	.083				30CSL	CF300E	30CC50
	3.28	3.384	.083	30312C50**			30CSV		30EC50
	3.30	3.400	.083	30312CS**			CF300C		30PFFC50
	3.32	3.416	.083	(3.375 ID)					30PFC50
	3.34	3.431	.083	30314C50**					
	3.36	3.447	.083	30314CS**					
	3.38	3.462	.083	(3.438 ID)					
	3.40	3.478	.083	30316C50**					
	3.42	3.494	.083	30316CS**					
	3.44	3.509	.083	(3.500 ID)					
	3.46	3.525	.083	30318C50**					
	3.48	3.540	.083	30318CS**					
	3.50	3.556	.083	(3.563 ID)					
	3.52	3.572	.083	30320C50**					
	3.54	3.587	.083	30320CS**					
	3.56	3.603	.083	(3.625 ID)					
	3.58	3.618	.083	30322C50**					
	3.60	3.634	.083	30322CS**					
	3.62	3.650	.083	(3.688 ID)					
	3.64	3.665	.083	30324C50**					
	3.66	3.681	.083	30324CS**					
	3.68	3.696	.083	(3.750 ID)					
	3.70	3.712	.083	30326C50**					
	3.72	3.728	.083	30326CS**					
	3.74	3.743	.083	(3.813 ID)					
	3.76	3.759	.083						
	3.78	3.774	.083	30328C50**					
	3.80	3.790	.083	30328CS**					
	3.82	3.806	.083	(3.875 ID)					
3.84	3.821	.083	30330C50**						
3.86	3.837	.083	30330CS**						
3.88	3.852	.083	(3.938 ID)						
3.90	3.868	.083	30400C50**						
3.92	3.884	.083	30400CS**						
3.94	3.899	.083	(4.000 ID)						
3.96	3.915	.083	30402C50**						
3.98	3.930	.083	30402CS**						
4.00	3.946	.083	(4.063 ID)						
4.02	3.962	.083	30404C50**						
4.04	3.977	.083	30404CS**						
4.06	3.993	.083	(4.125 ID)						
4.08	4.008	.083							
4.10	4.024	.083	30406C50**						
4.12	4.040	.083	30406CS**						
4.14	4.055	.083	(4.188 ID)						

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4	4.20	4.396	.120	40410C50**	4.1	3.9	40C	40E	40TMC50
	4.22	4.412	.120	40410CS**			40CHD	40EHD	40WC50
	4.24	4.427	.120	(4.313 ID)			40CL	40ESV	40VC50
	4.26	4.443	.120				40CSL	CF400E	40CC50
	4.28	4.458	.120	40412C50**			40CSV		40EC50
	4.30	4.474	.120	40412CS**			CF400C		40PFC50
	4.32	4.490	.120	(4.375 ID)					40PFC50
	4.34	4.505	.120	40414C50**					
	4.36	4.521	.120	40414CS**					
	4.38	4.536	.120	(4.438 ID)					
	4.40	4.552	.120	40416C50**					
	4.42	4.568	.120	40416CS**					
	4.44	4.583	.120	(4.500 ID)					
	4.46	4.599	.120	40418C50**					
	4.48	4.614	.120	40418CS**					
	4.50	4.630	.120	(4.563 ID)					
	4.52	4.646	.120	40420C50**					
	4.54	4.661	.120	40420CS**					
	4.56	4.677	.120	(4.625 ID)					
	4.58	4.692	.120	40422C50**					
	4.60	4.708	.120	40422CS**					
	4.62	4.724	.120	(4.688 ID)					
	4.64	4.739	.120	40424C50**					
	4.66	4.755	.120	40424CS**					
	4.68	4.770	.120	(4.750 ID)					
	4.70	4.786	.120	40426C50**					
	4.72	4.802	.120	40426CS**					
	4.74	4.817	.120	(4.813 ID)					
	4.76	4.833	.120						
	4.78	4.848	.120	40428C50**					
	4.80	4.864	.120	40428CS**					
	4.82	4.880	.120	(4.875 ID)					
4.84	4.895	.120	40430C50**						
4.86	4.911	.120	40430CS**						
4.88	4.926	.120	(4.938 ID)						
4.90	4.942	.120	40500C50**						
4.92	4.958	.120	40500CS**						
4.94	4.973	.120	(5.000 ID)						
4.96	4.989	.120	40502C50**						
4.98	5.004	.120	40502CS**						
5.00	5.020	.120	(5.063 ID)						
5.02	5.036	.120	40504C50**						
5.04	5.051	.120	40504CS**						
5.06	5.067	.120	(5.125 ID)						
5.08	5.082	.120							
5.10	5.078	.110	40506C50**						
5.12	5.094	.110	40506CS**						
5.14	5.109	.110	(5.188 ID)						
5.16	5.125	.110	40508C50**						
5.18	5.140	.110	40508CS**						
5.20	5.156	.110	(5.250 ID)						

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5	5.52	5.646	.120	50520C50**	5.5	5.5	50C CF500C	50E CF500E	50TMC50 50WC50 50VC50 50PFFC50 50PFC50
	5.54	5.661	.120	50520CS**					
	5.56	5.677	.120	(5.625 ID)					
	5.64	5.739	.120	50524C50**					
	5.66	5.755	.120	50524CS**					
	5.68	5.770	.120	(5.750 ID)					
	5.84	5.895	.120	50530C50**					
	5.86	5.911	.120	50530CS**					
5.88	5.926	.120	(5.938 ID)						



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6	6.20	6.424	.134	60610C50**	6.1	6.1	60C 60CHD 60CL 60CSL 60CSV CF600C	60E 60EHD 60ESV CF600E	60TMC50 60WC50 60VC50 60PFFC50 60PFC50
	6.22	6.440	.134	60610CS**					
	6.24	6.455	.134	(6.313 ID)					
	6.26	6.471	.134						
	6.28	6.486	.134	60612C50**					
	6.30	6.502	.134	60612CS**					
	6.32	6.518	.134	(6.375 ID)					
	6.40	6.580	.134	60616C50**					
	6.42	6.596	.134	60616CS**					
	6.44	6.611	.134	(6.500 ID)					
	6.46	6.627	.134	60618C50**					
	6.48	6.642	.134	60618CS**					
	6.50	6.658	.134	(6.563 ID)					
	6.52	6.656	.125	60620C50**					
	6.54	6.671	.125	60620CS**					
	6.56	6.687	.125	(6.625 ID)					
	6.64	6.749	.125	60624C50**					
	6.66	6.765	.125	60624CS**					
	6.68	6.780	.125	(6.750 ID)					
	6.78	6.858	.125	60628C50**					
	6.80	6.874	.125	60628CS**					
	6.82	6.890	.125	(6.875 ID)					
	6.84	6.905	.125	60630C50**					
	6.86	6.921	.125	60630CS**					
	6.88	6.936	.125	(6.938 ID)					
	6.90	6.952	.125	60700C50**					
	6.92	6.968	.125	60700CS**					
	6.94	6.983	.125	(7.000 ID)					
6.96	6.999	.125	60702C50**						
6.98	7.014	.125	60702CS**						
7.00	7.030	.125	(7.063 ID)						

WARNING: Crimp OD listed is only to be used as a guide. Hose assemblies should be tested using Hose Safety Institute procedures.



# CRIMP OD & PRODUCT GUIDE



HOSE ID	HOSE OD	CRIMP OD	FERR/SLV WALL	PROGRIP FERR/SLV	C50** LENGTH	CS** LENGTH	PT CAM & GRV. COUPLER	PT CAM & GRV. ADAPTER	PROGRIP BODIES
8	8.40	8.580	.134	80816C50**	6.6	6.6	80C CF800C	80E CF800E	80VC50
	8.42	8.596	.134	80816CS**					
	8.44	8.611	.134	(8.500 ID)					
	8.52	8.674	.134	80820C50**					
	8.54	8.689	.134	80820CS**					
	8.56	8.705	.134	(8.625 ID)					
	8.58	8.692	.120	80822C50**					
	8.60	8.708	.120	80822CS**					
	8.62	8.724	.120	(8.688 ID)					
	8.64	8.739	.120	80824C50**					
	8.66	8.755	.120	80824CS**					
	8.68	8.770	.120	(8.750 ID)					
	9.02	9.036	.120	80904C50**					
	9.04	9.051	.120	80904CS**					
	9.06	9.067	.120	(9.125 ID)					
	9.08	9.082	.120						
	9.40	9.332	.120	80916C50**					
	9.42	9.348	.120	80916CS**					
9.44	9.363	.120	(9.500 ID)						
9.52	9.426	.120	80920C50**						
9.54	9.441	.120	80920CS**						
9.56	9.457	.120	(9.625 ID)						

**WARNING: Crimp OD listed is only to be used as a guide. Hose assemblies should be tested using Hose Safety Institute procedures.**



1. Squarely cut hose to desired length.
2. Remove all debris from hose I.D.
3. Bend grounding wire inside of hose with wire extending approximately 0.5" (13mm) for conductivity if required.
4. Using calipers measure the hose OD.
5. Locate closest hose OD measurement to select recommended sleeve or ferrule size.  
Note: if recommend sleeve or ferrule is not available. A sleeve or ferrule with an ID of .03"-.13" larger than hose OD can be used instead.
6. Verify using calipers if ferrule or sleeve wall matches wall listed on chart within  $\pm 12\%$  of listed wall thickness to ensure listed crimp OD can be used.
7. Slide sleeve or ferrule over hose.
8. Insert selected coupling shank squarely into the hose to avoid hose damage.
9. Ferrules: slide ferrule over lock collar and make sure hose is approximately 0.25" (6mm) back from Ferrule inside shoulder to allow for hose expansion.
10. Sleeves: slide crimp sleeve into position and make sure the sleeve is located over shank serrations.
11. Using chart select proper crimp OD.

**Warning: crimp OD listed on chart is calculated using 22% hose wall compression and is only to be used as a guide. Required hose wall compression can be more or less depending on the type of hose being used. To obtain a more accurate crimp OD please use crimp calculator or formula.**

**The hose assembler is ultimately responsible for selecting the proper crimp OD**

12. Having determined the crimp target O.D. – select proper die set and crimper setup.
13. Place hose assembly end into the die opening.
14. Jog dies making contact with the sleeve or ferrule. Verify sleeve or ferrule is properly positioned.
15. Crimp the sleeve or ferrule to target O.D.
17. Repeat steps 1-17 for opposite end.
18. The integrity of the hose assembly should be verified by hydrostatic proof testing using Hose Safety Institute Procedures.

**Warning: All hose assemblies should be viewed as potential hazards. Improper use, application or selection of the appropriate products can result in property damage, personal injury, or even death**