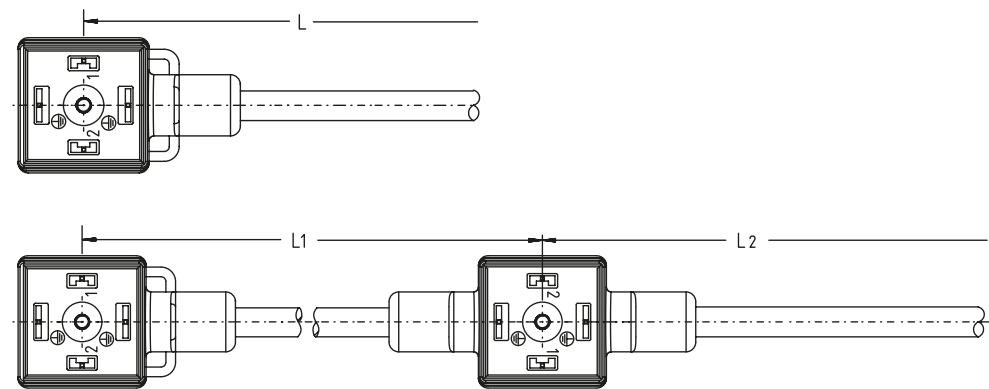
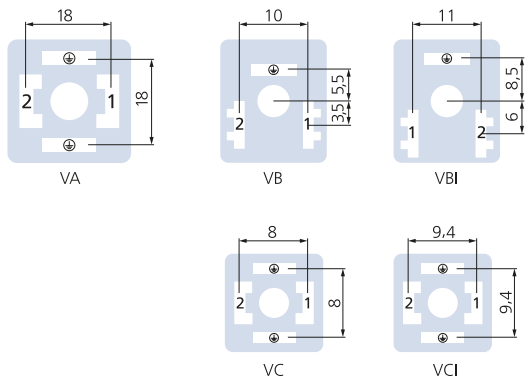
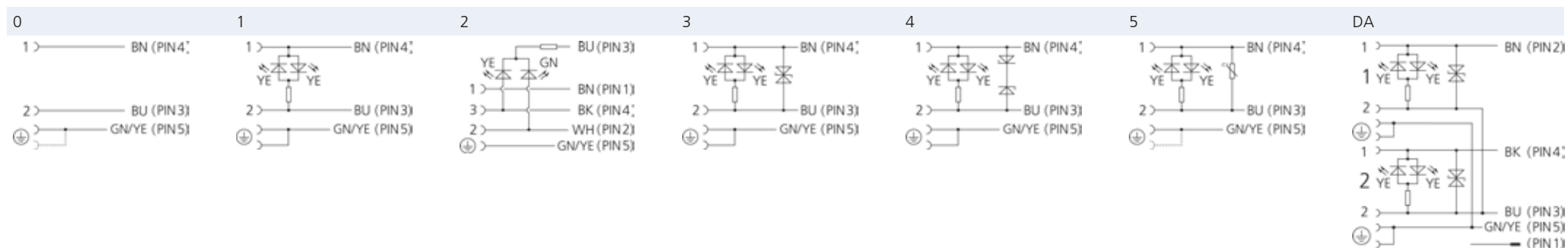


Type	Contacts	$U_{[max]}$	Circuit	Cable length	B-side
VA A	21 2+PE	24 24V _{DC} 24V _{AC/DC}	0 without	L Single-, double-ended cordset	S370 Cable quality
VAA A straight	22 2+PE jumpered	60 60V _{AC/DC}	1 LED	L1/L2 Double-valve connector	WAS5.132 DA with M12 connection
VAAG A straight grip with thread	31 3+PE	230 230V _{AC/DC}	2 LED pressure switch		
VB B (10mm contact clearance)	41 3+PE+ wire-connection		3 LED+suppressor diode		WAS5.002 Adapter M12, valve
VBI BI (11mm contact clearance)			4 LED+Z-diode		
VC C (8mm contact clearance)			5 LED+varistor		
VCI CI (9.4mm contact clearance)					



Cable	Material	UL	Color	Feature
P00	PVC/PVC		GY	
P01	PVC/PVC	✓	GY	
S370	PUR/PP	✓	BK	drag chain-adapted torsion resistant welding sparks resistant





Valve connectors

Technical data	Valve connector	M12
Insulation resistance	$\geq 10^8 \Omega$	$\geq 10^8 \Omega$
Ambient temperature product	-30°C...+90°C	-30°C...+90°C
Contact material	Metal, silver-plated	Metal, gold-plated
Contact-carrier material	Plastic, PA	Plastic, TPU
Grip body material	Plastic, TPU	Plastic, TPU
Sealing (female) material	Plastic, TPU	
Standards	DIN EN 175301-803	IEC 61076-2-101
Degree of protection (mounted)	IP65, IP67, IP68	IP65, IP67, IP68
Mechanical life-cycle	>100 mating cycles	>100 mating cycles
Degree of pollution	3	3

ESCHA valve-connectors stand for minimum installation space and excellent LED visibility in all installation positions at the same time. They are available in typical housing styles and protection circuits. A comprehensive product program with single-ended and double-ended cordsets as well as adapters and double-valve connectors offers a suitable solution for any application.

		Body			Cable			Item description	L / L2 = cable length		
		Pins	U[max]	Circuit	Material	Color	L1[m]		2m / 1m	5m / 2m	10m / 5m
	Single-ended cordset female, angled, Valve A	2+PE	230V _{AC/DC}	without	PUR	BK		VA21-230.0-L/S370	8050753	8047806	8050754
			230V _{AC/DC}	without	PVC	GY		VA21-230.0-L/P00	8048838	8048841	8050824
			230V _{AC/DC}	without	PVC	GY		VA21-230.0-L/P01	8050873	8047823	8050874
	2+PE, PE bridged		230V _{AC/DC}	Varistor	PUR	BK		VA22-230.5-L/S370	8050755	8046704	8050756
			230V _{AC/DC}	Varistor	PVC	GY		VA22-230.5-L/P00	8050827	8048819	8050828
			230V _{AC/DC}	Varistor	PVC	GY		VA22-230.5-L/P01	8050875	8047824	8050876
			230V _{AC/DC}	without	PUR	BK		VA22-230.0-L/S370	8052299	8052300	8052301
			230V _{AC/DC}	without	PVC	GY		VA22-230.0-L/P00	8052302	8052303	8052304
			230V _{AC/DC}	without	PVC	GY		VA22-230.0-L/P01	8052305	8052306	8052307
			30V _{AC/DC}	Suppressor diode	PUR	BK		VA22-24.3-L/S370	8050293	8047804	8048527
			30V _{AC/DC}	Suppressor diode	PVC	GY		VA22-24.3-L/P00	8048840	8048839	8049537
			30V _{AC/DC}	Suppressor diode	PVC	GY		VA22-24.3-L/P01	8049306	8047821	8050863
			30V _{AC/DC}	without	PUR	BK		VA22-24.1-L/S370	8050501	8047803	8048240
			30V _{AC/DC}	without	PVC	GY		VA22-24.1-L/P00	8050819	8048818	8050820
			30V _{AC/DC}	without	PVC	GY		VA22-24.1-L/P01	8050861	8046613	8050862
	3+PE		230V _{AC/DC}	without	PUR	BK		VA31-230.0-L/S370	8058325	8059241	8059242
			230V _{AC/DC}	without	PVC	GY		VA31-230.0-L/P00	8061939	8066062	8062016
			230V _{AC/DC}	without	PVC	GY		VA31-230.0-L/P01	8081356	8081355	8061577
			30V _{AC/DC}	Suppressor diode	PUR	BK		VA31-24.3-L/S370	8067058	8065473	8078853
			30V _{AC/DC}	Suppressor diode	PVC	GY		VA31-24.3-L/P00	8081328	8081329	8081330
			30V _{AC/DC}	Suppressor diode	PVC	GY		VA31-24.3-L/P01	8081331	8081332	8081333
	3+PE wire		30V _{DC}	without	PUR	BK		VA41-24.2-L/S370	8050500	8047805	8049933
			30V _{DC}	without	PVC	GY		VA41-24.2-L/P00	8050822	8049310	8050540
			30V _{DC}	without	PVC	GY		VA41-24.2-L/P01	8050865	8047822	8050866
	Single-ended cordset female, straight, Valve AA	2+PE	230V _{AC/DC}	without	PUR	BK		VAA21-230.0-L/S370	8055720	8055721	8055722
			230V _{AC/DC}	without	PVC	GY		VAA21-230.0-L/P00	8055726	8055727	8055728
			230V _{AC/DC}	without	PVC	GY		VAA21-230.0-L/P01	8055732	8055733	8055734

* Standard cable-lengths for single-ended cordset: 2m, 5m, or 10m. For double-ended cordset: 1m, 2m, or 5m. Wire length for receptacles: 0.5m (0.2m for POWER). Other cable- and wire lengths are available upon request.

	Pins	Body		Cable			Item description	L / L2 = cable length		
		U[max]	Circuit	Material	Color	L1[m]		2m / 1m	5m / 2m	10m / 5m
	2+PE, PE bridged	230V _{AC/DC}	Varistor	PUR	BK		VAA22-230.5-L/S370	8055666	8055671	8055667
		230V _{AC/DC}	Varistor	PVC	GY		VAA22-230.5-L/P00	8055690	8055691	8055692
		230V _{AC/DC}	Varistor	PVC	GY		VAA22-230.5-L/P01	8055712	8055713	8055714
		30V _{AC/DC}	Suppressor diode	PUR	BK		VAA22-24.3-L/S370	8055654	8055655	8055656
		30V _{AC/DC}	Suppressor diode	PVC	GY		VAA22-24.3-L/P00	8055679	8055680	8055678
		30V _{AC/DC}	Suppressor diode	PVC	GY		VAA22-24.3-L/P01	8055701	8055702	8055703
		30V _{AC/DC}	without	PUR	BK		VAA22-24.1-L/S370	8055648	8055649	8055650
		30V _{AC/DC}	without	PVC	GY		VAA22-24.1-L/P00	8055672	8055673	8055674
		30V _{AC/DC}	without	PVC	GY		VAA22-24.1-L/P01	8055696	8055697	8055698
	3+PE wire	30V _{DC}	without	PUR	BK		VAA41-24.2-L/S370	8055660	8055661	8055662
		30V _{DC}	without	PVC	GY		VAA41-24.2-L/P00	8055685	8055686	8055684
		30V _{DC}	without	PVC	GY		VAA41-24.2-L/P01	8055707	8055708	8055709
	2+PE	230V _{AC/DC}	without	PUR	BK		VAAG21-230.0-L/S370	8055723	8055724	8055725
		230V _{AC/DC}	without	PVC	GY		VAAG21-230.0-L/P00	8055729	8055730	8055731
		230V _{AC/DC}	without	PVC	GY		VAAG21-230.0-L/P01	8055735	8055736	8055737
	2+PE, PE bridged	230V _{AC/DC}	Varistor	PUR	BK		VAAG22-230.5-L/S370	8055668	8055669	8055670
		230V _{AC/DC}	Varistor	PVC	GY		VAAG22-230.5-L/P00	8055693	8055694	8055695
		230V _{AC/DC}	Varistor	PVC	GY		VAAG22-230.5-L/P01	8055715	8055716	8055717
		30V _{AC/DC}	Suppressor diode	PUR	BK		VAAG22-24.3-L/S370	8055657	8055658	8055659
		30V _{AC/DC}	Suppressor diode	PVC	GY		VAAG22-24.3-L/P00	8055682	8055683	8055681
		30V _{AC/DC}	Suppressor diode	PVC	GY		VAAG22-24.3-L/P01	8055704	8055705	8055706
		30V _{AC/DC}	without	PUR	BK		VAAG22-24.1-L/S370	8055651	8055652	8055653
		30V _{AC/DC}	without	PVC	GY		VAAG22-24.1-L/P00	8055677	8055675	8055676
		30V _{AC/DC}	without	PVC	GY		VAAG22-24.1-L/P01	8055699	8055700	8055718
	3+PE wire	30V _{DC}	without	PUR	BK		VAAG41-24.2-L/S370	8055663	8055664	8055665
		30V _{DC}	without	PVC	GY		VAAG41-24.2-L/P00	8055688	8055689	8055687
		30V _{DC}	without	PVC	GY		VAAG41-24.2-L/P01	8055719	8055710	8055711
	2+PE, PE bridged	24V _{AC/DC}	Suppressor diode	PUR	BK	0.15	VA22-24.3-0,15-DA22-24.3-L/S370	8055743	8055744	8055745
		24V _{AC/DC}	Suppressor diode	PUR	BK	0.40	VA22-24.3-0,4-DA22-24.3-L/S370	8055746	8055747	8055748
		24V _{AC/DC}	Suppressor diode	PVC	GY	0.15	VA22-24.3-0,15-DA22-24.3-L/P00	8055749	8055750	8055751
		24V _{AC/DC}	Suppressor diode	PVC	GY	0.15	VA22-24.3-0,15-DA22-24.3-L/P01	8055755	8055756	8055757
		24V _{AC/DC}	Suppressor diode	PVC	GY	0.40	VA22-24.3-0,4-DA22-24.3-L/P00	8055752	8055753	8055754
		24V _{AC/DC}	Suppressor diode	PVC	GY	0.40	VA22-24.3-0,4-DA22-24.3-L/P01	8055758	8055759	8055760

* Standard cable-lengths for single-ended cordset: 2m, 5m, or 10m. For double-ended cordset: 1m, 2m, or 5m. Wire length for receptacles: 0.5m (0.2m for POWER). Other cable- and wire lengths are available upon request.

		Pins	Body		Cable			Item description	L / L2 = cable length		
			U[max]	Circuit	Material	Color	L1[m]		2m / 1m	5m / 2m	10m / 5m
	Single-ended cordset female, angled, Valve A female, angled, Valve D M12, 5 poles	2+PE, PE bridged	24V _{AC/DC}	Suppressor diode	PUR	BK	0.15	VA22-24.3-0,15-DA22-24.3-WAS5.132/S370	8055761		
			24V _{AC/DC}	Suppressor diode	PUR	BK	0.40	VA22-24.3-0,4-DA22-24.3-WAS5.132/S370	8055762		
			24V _{AC/DC}	Suppressor diode	PVC	GY	0.15	VA22-24.3-0,15-DA22-24.3-WAS5.132/P00	8055763		
			24V _{AC/DC}	Suppressor diode	PVC	GY	0.15	VA22-24.3-0,15-DA22-24.3-WAS5.132/P01	8055765		
			24V _{AC/DC}	Suppressor diode	PVC	GY	0.40	VA22-24.3-0,4-DA22-24.3-WAS5.132/P00	8055764		
			24V _{AC/DC}	Suppressor diode	PVC	GY	0.40	VA22-24.3-0,4-DA22-24.3-WAS5.132/P01	8055766		
	Single-ended cordset female, angled, Valve B	2+PE	230V _{AC/DC}	Varistor	PUR	BK		VB21-230.5-L/S370	8050762	8047810	8050763
			230V _{AC/DC}	Varistor	PVC	GY		VB21-230.5-L/P00	8050835	8049312	8050836
			230V _{AC/DC}	Varistor	PVC	GY		VB21-230.5-L/P01	8050883	8047828	8050884
			230V _{AC/DC}	without	PUR	BK		VB21-230.0-L/S370	8050760	8047809	8050761
			230V _{AC/DC}	without	PVC	GY		VB21-230.0-L/P00	8048842	8048843	8050834
			230V _{AC/DC}	without	PVC	GY		VB21-230.0-L/P01	8050881	8047827	8050882
			30V _{AC/DC}	Suppressor diode	PUR	BK		VB21-24.3-L/S370	8050758	8047808	8050759
			30V _{AC/DC}	Suppressor diode	PVC	GY		VB21-24.3-L/P00	8048844	8048845	8050832
			30V _{AC/DC}	Suppressor diode	PVC	GY		VB21-24.3-L/P01	8050879	8047826	8050880
			30V _{AC/DC}	without	PUR	BK		VB21-24.1-L/S370	8049246	8047807	8050757
			30V _{AC/DC}	without	PVC	GY		VB21-24.1-L/P00	8050829	8049311	8050830
			30V _{AC/DC}	without	PVC	GY		VB21-24.1-L/P01	8050877	8047825	8050878
	Single-ended cordset female, angled, Valve BI	2+PE	230V _{AC/DC}	Varistor	PUR	BK		VBI21-230.5-L/S370	8050767	8047814	8050768
			230V _{AC/DC}	Varistor	PVC	GY		VBI21-230.5-L/P00	8050859	8048821	8050860
			230V _{AC/DC}	Varistor	PVC	GY		VBI21-230.5-L/P01	8050906	8047832	8050907
			230V _{AC/DC}	without	PUR	BK		VBI21-230.0-L/S370	8050766	8047813	8049931
			230V _{AC/DC}	without	PVC	GY		VBI21-230.0-L/P00	8050857	8049314	8050858
			230V _{AC/DC}	without	PVC	GY		VBI21-230.0-L/P01	8050904	8047831	8050905
			30V _{AC/DC}	Suppressor diode	PUR	BK		VBI21-24.3-L/S370	8049884	8047812	8050765
			30V _{AC/DC}	Suppressor diode	PVC	GY		VBI21-24.3-L/P00	8050855	8048820	8050856
			30V _{AC/DC}	Suppressor diode	PVC	GY		VBI21-24.3-L/P01	8050901	8047830	8050902
			30V _{AC/DC}	without	PUR	BK		VBI21-24.1-L/S370	8050764	8047811	8050539
			30V _{AC/DC}	without	PVC	GY		VBI21-24.1-L/P00	8050838	8049313	8050538
			30V _{AC/DC}	without	PVC	GY		VBI21-24.1-L/P01	8050899	8047829	8050900
	Single-ended cordset female, angled, Valve C	2+PE	230V _{AC/DC}	without	PUR	BK		VC21-230.0-L/S370	8050772	8047817	8050773
			230V _{AC/DC}	without	PVC	GY		VC21-230.0-L/P00	8050846	8049317	8050848
			230V _{AC/DC}	without	PVC	GY		VC21-230.0-L/P01	8050914	8047835	8050916

* Standard cable-lengths for single-ended cordset: 2m, 5m, or 10m. For double-ended cordset: 1m, 2m, or 5m. Wire length for receptacles: 0.5m (0.2m for POWER). Other cable- and wire lengths are available upon request.

		Body		Cable				L / L2 = cable length			
		Pins	U[max]	Circuit	Material	Color	L1[m]	Item description	2m / 1m	5m / 2m	10m / 5m
	Single-ended cordset female, angled, Valve CI	2+PE, PE bridged	30V _{AC/DC}	without	PUR	BK		VC22-24.1-L/S370	8050769	8047815	8050770
			30V _{AC/DC}	without	PVC	GY		VC22-24.1-L/P00	8050842	8049315	8050843
			30V _{AC/DC}	without	PVC	GY		VC22-24.1-L/P01	8050909	8047833	8050910
			30V _{AC/DC}	Z-diode	PUR	BK		VC22-24.4-L/S370	8049873	8047816	8050771
			30V _{AC/DC}	Z-diode	PVC	GY		VC22-24.4-L/P00	8050844	8049316	8050845
			30V _{AC/DC}	Z-diode	PVC	GY		VC22-24.4-L/P01	8050912	8047834	8050913
	Double-ended cordset female, angled, Valve A male, straight, M12	2+PE	230V _{AC/DC}	without	PUR	BK		VCI21-230.0-L/S370	8050778	8047820	8050779
			230V _{AC/DC}	without	PVC	GY		VCI21-230.0-L/P00	8050853	8049320	8050854
			230V _{AC/DC}	without	PVC	GY		VCI21-230.0-L/P01	8050921	8047838	8050922
		2+PE, PE bridged	30V _{AC/DC}	without	PUR	BK		VCI22-24.1-L/S370	8050774	8047818	8050775
			30V _{AC/DC}	without	PVC	GY		VCI22-24.1-L/P00	8050849	8049318	8050850
			30V _{AC/DC}	without	PVC	GY		VCI22-24.1-L/P01	8050917	8047836	8050918
			30V _{AC/DC}	Z-diode	PUR	BK		VCI22-24.4-L/S370	8050776	8047819	8050777
			30V _{AC/DC}	Z-diode	PVC	GY		VCI22-24.4-L/P00	8050851	8049319	8050852
			30V _{AC/DC}	Z-diode	PVC	GY		VCI22-24.4-L/P01	8050919	8047837	8050920
			2+PE, PE bridged	30V _{AC/DC}	Suppressor diode	PUR	BK		VA22-24.3-L-AL-WAS5.002/S370	8052049	8050782
30V _{AC/DC}	Suppressor diode	PVC		GY		VA22-24.3-L-AL-WAS5.002/P00	8052209	8052225	8052226		
30V _{AC/DC}	Suppressor diode	PVC		GY		VA22-24.3-L-AL-WAS5.002/P01	8052260	8052261	8052262		
	Double-ended cordset female, angled, Valve A male, angled, M12	3+PE wire	30V _{AC/DC}	without	PUR	BK		VA41-24.2-L-AL-WAS5/S370	8052051	8050785	8050786
			30V _{AC/DC}	without	PVC	GY		VA41-24.2-L-AL-WAS5/P00	8052230	8052231	8052232
			30V _{AC/DC}	without	PVC	GY		VA41-24.2-L-AL-WAS5/P01	8052266	8052267	8052268
		2+PE, PE bridged	30V _{AC/DC}	Suppressor diode	PUR	BK		VA22-24.3-L-AL-WWAS5.002/S370	8052050	8050780	8050186
			30V _{AC/DC}	Suppressor diode	PVC	GY		VA22-24.3-L-AL-WWAS5.002/P00	8052227	8052228	8052229
			30V _{AC/DC}	Suppressor diode	PVC	GY		VA22-24.3-L-AL-WWAS5.002/P01	8052263	8052264	8052265
	Double-ended cordset female, angled, Valve B male, straight, M12	3+PE wire	30V _{AC/DC}	without	PUR	BK		VA41-24.2-L-AL-WWAS5/S370	8052052	8050788	8050188
			30V _{AC/DC}	without	PVC	GY		VA41-24.2-L-AL-WWAS5/P00	8052233	8052234	8052235
			30V _{AC/DC}	without	PVC	GY		VA41-24.2-L-AL-WWAS5/P01	8052269	8052270	8052271
	Double-ended cordset female, angled, Valve B male, angled, M12	2+PE	30V _{AC/DC}	Suppressor diode	PUR	BK		VB21-24.3-L-AL-WAS5.002/S370	8052053	8050790	8050791
			30V _{AC/DC}	Suppressor diode	PVC	GY		VB21-24.3-L-AL-WAS5.002/P00	8052236	8052237	8052238
			30V _{AC/DC}	Suppressor diode	PVC	GY		VB21-24.3-L-AL-WAS5.002/P01	8052272	8052273	8052274
	Double-ended cordset female, angled, Valve B male, angled, M12	2+PE	30V _{AC/DC}	Suppressor diode	PUR	BK		VB21-24.3-L-AL-WWAS5.002/S370	8052054	8050797	8050189
			30V _{AC/DC}	Suppressor diode	PVC	GY		VB21-24.3-L-AL-WWAS5.002/P00	8052239	8052240	8052241
			30V _{AC/DC}	Suppressor diode	PVC	GY		VB21-24.3-L-AL-WWAS5.002/P01	8052275	8052276	8052277

* Standard cable-lengths for single-ended cordset: 2m, 5m, or 10m. For double-ended cordset: 1m, 2m, or 5m. Wire length for receptacles: 0.5m (0.2m for POWER). Other cable- and wire lengths are available upon request.

		Body			Cable			Item description	L / L2 = cable length		
		Pins	U[max]	Circuit	Material	Color	L1[m]		2m / 1m	5m / 2m	10m / 5m
	Double-ended cordset female, angled, Valve BI male, straight, M12	2+PE	30V _{AC/DC}	Suppressor diode	PUR	BK		VBI21-24.3-L-AL-WAS5.002/S370	8049278	8050800	8050801
			30V _{AC/DC}	Suppressor diode	PVC	GY		VBI21-24.3-L-AL-WAS5.002/P00	8052242	8052243	8052244
			30V _{AC/DC}	Suppressor diode	PVC	GY		VBI21-24.3-L-AL-WAS5.002/P01	8052278	8052279	8052280
	Double-ended cordset female, angled, Valve BI male, angled, M12	2+PE	30V _{AC/DC}	Suppressor diode	PUR	BK		VBI21-24.3-L-AL-WWAS5.002/S370	8049279	8050804	8050805
			30V _{AC/DC}	Suppressor diode	PVC	GY		VBI21-24.3-L-AL-WWAS5.002/P00	8052245	8052246	8052247
			30V _{AC/DC}	Suppressor diode	PVC	GY		VBI21-24.3-L-AL-WWAS5.002/P01	8052281	8052282	8052283
	Double-ended cordset female, angled, Valve C male, straight, M12	2+PE, PE bridged	30V _{AC/DC}	Z-diode	PUR	BK		VC22-24.4-L-AL-WAS5.002/S370	8052055	8050807	8050190
			30V _{AC/DC}	Z-diode	PVC	GY		VC22-24.4-L-AL-WAS5.002/P00	8052248	8052249	8052250
			30V _{AC/DC}	Z-diode	PVC	GY		VC22-24.4-L-AL-WAS5.002/P01	8052284	8052285	8052286
	Double-ended cordset female, angled, Valve C male, angled, M12	2+PE, PE bridged	30V _{AC/DC}	Z-diode	PUR	BK		VC22-24.4-L-AL-WWAS5.002/S370	8052056	8050813	8050191
			30V _{AC/DC}	Z-diode	PVC	GY		VC22-24.4-L-AL-WWAS5.002/P00	8052251	8052252	8052253
			30V _{AC/DC}	Z-diode	PVC	GY		VC22-24.4-L-AL-WWAS5.002/P01	8052287	8052288	8052289
	Double-ended cordset female, angled, Valve CI male, straight, M12	2+PE, PE bridged	30V _{AC/DC}	Z-diode	PUR	BK		VCI22-24.4-L-AL-WAS5.002/S370	8052057	8050810	8050192
			30V _{AC/DC}	Z-diode	PVC	GY		VCI22-24.4-L-AL-WAS5.002/P00	8052254	8052255	8052256
			30V _{AC/DC}	Z-diode	PVC	GY		VCI22-24.4-L-AL-WAS5.002/P01	8052290	8052291	8052292
	Double-ended cordset female, angled, Valve CI male, angled, M12	2+PE, PE bridged	30V _{AC/DC}	Z-diode	PUR	BK		VCI22-24.4-L-AL-WWAS5.002/S370	8052058	8050816	8050193
			30V _{AC/DC}	Z-diode	PVC	GY		VCI22-24.4-L-AL-WWAS5.002/P00	8052257	8052258	8052259
			30V _{AC/DC}	Z-diode	PVC	GY		VCI22-24.4-L-AL-WWAS5.002/P01	8052293	8052294	8052296
	Adapter male, angled, Valve A Connecting plug M12x1, 5 poles	2+PE, PE bridged	24V _{AC/DC}	Suppressor diode				VA22-24.3-WAS5.002	8055768		
			24V _{AC/DC}	without				VA22-24.1-WAS5.002	8055767		
			24V _{DC}	without				VA41-24.2-WAS5	8055769		
			60V _{AC/DC}	without				VA22-60.0-WAS5.002	8055770		

* Standard cable-lengths for single-ended cordset: 2m, 5m, or 10m. For double-ended cordset: 1m, 2m, or 5m. Wire length for receptacles: 0.5m (0.2m for POWER). Other cable- and wire lengths are available upon request.

