

# Molex Europe Brad® Express Program

## Part Number Reference

[www.molex.com](http://www.molex.com)

## Field Attachable Connectors

### PROFIBUS\* Brad® Micro-Change® (M12) and D-Sub Field Attachable Connectors

Poles	Gender	Orientation	Max. Wire Size (AWG)	Engineering No.	Order No.
5	Female	Shielded - Straight	22(0.34mm <sup>2</sup> )	BA5S00-32	1201000001
	Male	Shielded - Straight		BA5S06-32	1201000002
9	Male	Dsub with Diag - str		MA9D00-42	1201035001
		Dsub with Diag - 90d		PA9D01-42	1201030001
		Dsub with Diag - 45d		PA9D08-42	1201030003
		Dsub - 90d		PA9S01-42	1201030005

### Ethernet Brad® Micro-Change® (M12) Field Attachable Connectors

Poles	Gender	Orientation	Max. Wire Size (AWG)	Engineering No.	Order No.
4	Female	Straight	22(0.34mm <sup>2</sup> )	E1AS00-52	1300470017
	Male		22(0.34mm <sup>2</sup> )	E1AS06-52	1300470018
RJ-45	Female		Stranded Core Cable	ENQAM315	1300570001
			Solid Core Cable	ENSAM315	1300570003

## Cordsets

### DeviceNet\* Brad® Micro-Change® (M12) Cordsets

Poles	Wire/Cable Type	Cable Jacket Material	Wire Size (AWG)	Orientation	Cable Length	Engineering No.	Order No.
5	Shielded-twisted pair	PVC	22 24	Straight	0.5m	DND22A-M005	1300280023
					1.0m	DND22A-M010	1300280028

### DeviceNet\* Brad® Mini-Change® Cordsets

Poles	Type	Wire/Cable Type	Cable Jacket Material	Wire Size (AWG)	Orientation	Cable Length	Engineering No.	Order No.
5	Double-ended	Shielded-twisted pair	PVC	18	Straight	1.0m	DN11A-M010	1300250054
				18		2.0m	DN11A-M020	1300250061
				18		4.0m	DN11A-M040	1300250071
				18		5.0m	DN11A-M050	1300250073
				22 24		5.0m	DND11A-M050	1300250295

\*DeviceNet is a trademark of the ODVA

### PROFIBUS\* Brad® Micro-Change® (M12) Cordsets

Poles	Type	Wire/Cable Type	Cable Jacket Material	Wire Size (AWG)	Orientation	Cable Length	Engineering No.	Order No.
5p/2w	Double-ended	Shielded-twisted pair	PVC	22	Fem Str to Male Str	4.0m	BB5S30PP4M040	1200980009
					Fem 90 to Male 90	2.0m	BB5S33PP4M020	1200980031

\*PROFIBUS is a trademark of PROFIBUS international

### Brad® Micro-Change® (Dual Key) Cordsets

Poles	Type	Wire/Cable Type	Cable Jacket Material	Wire Size (AWG)	Orientation	Cable Length	Engineering No.	Order No.
6	Single-ended	UL 2661	PVC	22	Fem - Str	5.0m	706000D02M050	1200720961
						10.0m	706000D02M100	1200130012

# Molex Europe Brad® Express Program

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### Brad® Micro-Change® (M12) Cordsets

Poles	Type	Wire/Cable Type	Cable Jacket Material	Wire Size (AWG)	Orientation	Cable Length	Engineering No.	Order No.
3	Single-ended	UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem - 90	5.0m	803001E03M050	1200060008
		UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem-90 with LEDs	5.0m	8030P1E03M050	1200675060
4	Single-ended	UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem - Str	2.0m	804000E03M020	1200060014
		UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem - Str	5.0m	804000E03M050	1200060015
		UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem - Str	10.0m	804000E03M100	1200060016
		UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem - 90	2.0m	804001E03M020	1200060021
		UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem - 90	5.0m	804001E03M050	1200060022
		UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem - 90	10.0m	804001E03M100	1200060023
		UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem-Str with LEDs	5.0m	8040P0E03M050	1200675072
		UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem-90 with LEDs	5.0m	8040P1E03M050	1200060611
		UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem-90 with LEDs	10.0m	8040P1E03M100	1200675073
5	Single-ended	UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem - Str	5.0m	805000E03M050	1200651978
		UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem - Str	10.0m	805000E03M100	1200060638
8	Single-ended	PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - Str	2.0m	808000P02M020	1200650951
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - Str	5.0m	808000P02M050	1200650953
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - Str	10.0m	808000P02M100	1200650957
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - Str	15.0m	808000P02M150	1200658021
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - 90	2.0m	808001P02M020	1200650960
3	Single-ended	PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Fem - Str	2.0m	803000P03M020	1200060004
		PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Fem - Str	5.0m	803000P03M050	1200060005
		PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Fem-90 with LEDs	5.0m	8030P1P03M050	1200675002
4	Single-ended	PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Fem - Str	5.0m	804000P03M050	1200060019
		PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Fem - Str	10.0m	804000P03M100	1200651782
		PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Fem - 90	2.0m	804001P03M020	1200060024
		PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Fem - 90	5.0m	804001P03M050	1200060025
		PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Fem - 90	10.0m	804001P03M100	1200651787
		PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Male - Str	5.0m	80406P03M050	1200060047
		PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Male - Str	10.0m	80406P03M100	1200060572
		PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Fem-Str with LEDs	5.0m	8040P0P03M050	1200675001
5	Single-ended	PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Fem - Str	5.0m	805000P03M050	1200651792
		PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Fem - Str	10.0m	805000P03M100	1200060649
		PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Fem - 90	5.0m	805001P03M050	1200651793
		PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Fem - 90	10.0m	805001P03M100	1200060664
		PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Male - Str	2.0m	805006P03M020	1200060680
8	Single-ended	Shielded Cable	PUR, Braid Shield	0.25mm <sup>2</sup>	Fem - Str, shielded	5.0m	808500P19M050	1200100116
4	Single-ended	Shielded LSZH Cable	PUR, Braid Shield	0.34mm <sup>2</sup>	Fem - Str, shielded	5.0m	804500P20M050	1200100008
		SJTO cable	PVC	0.34mm <sup>2</sup>	Fem - Str	5.0m	804000S20M050	1200060474
		SJTO cable	PVC	0.34mm <sup>2</sup>	Fem - 90	10.0m	804001S20M100	1200650910
3	Double-ended	UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem-Str to Male-Str	2.0m	883030E03M020	1200070085
4	Double-ended	UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem-Str to Male-Str	0.6m	884030E03M006	1200070472
		UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem-Str to Male-Str	2.0m	884030E03M020	1200070474
		UL AWM 2464	PVC	0.34mm <sup>2</sup>	Fem-Str to Male-Str	5.0m	884030E03M050	1200060049
		UL PLTC Cable	TPE - high flex	18AWG	Fem-Str to Male-Str	0.5m	884030K03M005	1200668003
		UL PLTC Cable	TPE - high flex	18AWG	Fem-Str to Male-Str	10.0m	884030K03M100	1200660902
		UL PLTC Cable	TPE - high flex	0.34mm <sup>2</sup>	Fem-Str to Male-Str	2.0m	884030K05M020	1200660689
		UL PLTC Cable	TPE - high flex	0.34mm <sup>2</sup>	Fem-Str to Male-Str	5.0m	884030K05M050	1200660692
3	Double-ended	PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Fem-Str to Male-Str	2.0m	883030P03M020	1200660500
5	Double-ended	PUR over PVC jacket	PUR/PVC	0.34mm <sup>2</sup>	Fem-Str to Male-Str	1.0m	885030P03M101	1200668084

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### Brad® Mini-Change® Cordsets

Poles	Type	Wire/Cable Type	Cable Jacket Material	Wire Size (AWG)	Orientation	Cable Length	Engineering No.	Order No.
4	Double-ended	UL - TC ER cable	TPE - high flex	16AWG	Fem-Str to Male-Str	4.0m	114030K12M040	1300100867

### Brad® Nano-Change® (M8) Cordsets

Poles	Type	Wire/Cable Type	Cable Jacket Material	Wire Size (AWG)	Orientation	Cable Length	Engineering No.	Order No.
3	Single-ended	UL AWM 2464	PVC	0.25mm <sup>2</sup>	Fem - Str	2.0m	403000E02M020	1200270066
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Fem - Str	5.0m	403000E02M050	1200270068
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Fem - Str	10.0m	403000E02M100	1200270070
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Fem - 90	2.0m	403001E02M020	1200270090
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Fem - 90	5.0m	403001E02M050	1200270092
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Fem - 90	10.0m	403001E02M100	1200270093
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Male - Str	2.0m	403006E02M020	1200868228
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Male - Str	5.0m	403006E02M050	1200270105
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Male - Str	10.0m	403006E02M100	1200868307
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Male - 90	2.0m	403007E02M020	1200270106
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Male - 90	5.0m	403007E02M050	1200868324
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Male - 90	10.0m	403007E02M100	1200868325
4	Single-ended	UL AWM 2464	PVC	0.25mm <sup>2</sup>	Fem - Str	2.0m	404000E02M020	1200270127
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Fem - Str	5.0m	404000E02M050	1200270129
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Fem - Str	10.0m	404000E02M100	1200270131
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Fem - 90	2.0m	404001E02M020	1200270152
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Fem - 90	5.0m	404001E02M050	1200270153
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Fem - 90	10.0m	404001E02M100	1200270154
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Male - Str	2.0m	404006E02M020	1200868368
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Male - Str	5.0m	404006E02M050	1200270376
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Male - Str	10.0m	404006E02M100	1200868369
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Male - 90	2.0m	404007E02M020	1200270483
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Male - 90	5.0m	404007E02M050	1200868378
		UL AWM 2464	PVC	0.25mm <sup>2</sup>	Male - 90	10.0m	404007E02M100	1200868379
3	Single-ended	PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - Str	2.0m	403000P02M020	1200868001
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - Str	5.0m	403000P02M050	1200868002
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - Str	10.0m	403000P02M100	1200868003
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - 90	2.0m	403001P02M020	1200868155
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - 90	5.0m	403001P02M050	1200868089
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - 90	10.0m	403001P02M100	1200868062
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Male - 90	2.0m	403007P02M020	1200868329
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Male - 90	5.0m	403007P02M050	1200868330
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Male - 90	10.0m	403007P02M100	1200868331
4	Single-ended	PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - Str	2.0m	404000P02M020	1200868156
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - Str	5.0m	404000P02M050	1200868157
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - Str	10.0m	404000P02M100	1200868158
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - 90	2.0m	404001P02M020	1200868159
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - 90	5.0m	404001P02M050	1200868081
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem - 90	10.0m	404001P02M100	1200868160
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Male - Str	2.0m	404006P02M020	1200868373
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Male - Str	5.0m	404006P02M050	1200868375
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Male - Str	10.0m	404006P02M100	1200868377
		PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Male - 90	2.0m	404007P02M020	1200868382

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### Brad® Nano-Change® (M8) Cordsets

Poles	Type	Wire/Cable Type	Cable Jacket Material	Wire Size (AWG)	Orientation	Cable Length	Engineering No.	Order No.
3	Double-ended	UL AWM 2464	PVC	0.25mm <sup>2</sup>	Fem-Str to Male-Str	0.3m	443030E02M003	1200878273
					Fem-Str to Male-Str	0.6m	443030E02M006	1200875035
					Fem-Str to Male-Str	1.0m	443030E02M010	1200878258
					Fem-Str to Male-Str	2.0m	443030E02M020	1200280321
					Fem-Str to Male-Str	3.0m	443030E02M030	1200280343
					Fem-Str to Male-Str	4.0m	443030E02M040	1200280464
					Fem-Str to Male-Str	5.0m	443030E02M050	1200280462
					Fem-90 to Male-Str	0.3m	443031E02M003	1200878303
					Fem-90 to Male-Str	0.6m	443031E02M006	1200875016
					Fem-90 to Male-Str	1.0m	443031E02M010	1200280016
					Fem-90 to Male-Str	2.0m	443031E02M020	1200878305
					Fem-90 to Male-Str	3.0m	443031E02M030	1200878306
					Fem-90 to Male-Str	5.0m	443031E02M050	1200878308
					Fem-Str to Male-90	0.6m	443032E02M006	1200878320
					Fem-Str to Male-90	1.0m	443032E02M010	1200878321
					Fem-90 to Male-90	0.6m	443033E02M006	1200878328
					Fem-90 to Male-90	1.0m	443033E02M010	1200878329
					Fem-90 to Male-90	3.0m	443033E02M030	1200878330
4	Double-ended	UL AWM 2464	PVC	0.25mm <sup>2</sup>	Fem-Str to Male-Str	0.3m	444030E02M003	1200878346
					Fem-Str to Male-Str	0.6m	444030E02M006	1200878348
					Fem-Str to Male-Str	1.0m	444030E02M010	1200878349
					Fem-Str to Male-Str	2.0m	444030E02M020	1200878350
					Fem-Str to Male-Str	3.0m	444030E02M030	1200878352
					Fem-Str to Male-Str	4.0m	444030E02M040	1200878353
					Fem-Str to Male-Str	5.0m	444030E02M050	1200878354
					Fem-90 to Male-Str	0.3m	444031E02M003	1200878363
					Fem-90 to Male-Str	0.6m	444031E02M006	1200878364
					Fem-90 to Male-Str	1.0m	444031E02M010	1200878365
					Fem-90 to Male-Str	2.0m	444031E02M020	1200878366
					Fem-90 to Male-Str	3.0m	444031E02M030	1200878367
					Fem-90 to Male-Str	5.0m	444031E02M050	1200878368
					Fem-Str to Male-90	0.3m	444032E02M003	1200878374
					3	Double-ended	PUR over PVC jacket	PUR/PVC
Fem-Str to Male-Str	0.6m	443030P02M006	1200878141					
Fem-Str to Male-Str	1.0m	443030P02M010	1200878140					
Fem-Str to Male-Str	2.0m	443030P02M020	1200878294					
Fem-Str to Male-Str	3.0m	443030P02M030	1200878296					
Fem-Str to Male-Str	4.0m	443030P02M040	1200878299					
Fem-Str to Male-Str	5.0m	443030P02M050	1200878233					
Fem-90 to Male-Str	0.3m	443031P02M003	1200878314					
Fem-90 to Male-Str	0.6m	443031P02M006	1200878315					
Fem-90 to Male-Str	1.0m	443031P02M010	1200878316					
Fem-90 to Male-Str	2.0m	443031P02M020	1200878317					
Fem-90 to Male-Str	3.0m	443031P02M030	1200878318					
Fem-90 to Male-Str	5.0m	443031P02M050	1200878319					
Fem-Str to Male-90	0.6m	443032P02M006	1200878322					
Fem-Str to Male-90	1.0m	443032P02M010	1200878324					
Fem-Str to Male-90	2.0m	443032P02M020	1200878325					
Fem-Str to Male-90	3.0m	443032P02M030	1200878326					
Fem-Str to Male-90	5.0m	443032P02M050	1200878327					
Fem-90 to Male-90	0.3m	443033P02M003	1200878332					
Fem-90 to Male-90	0.6m	443033P02M006	1200878333					
Fem-90 to Male-90	2.0m	443033P02M020	1200878334					

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### Brad® Nano-Change® (M8) Cordsets

Poles	Type	Wire/Cable Type	Cable Jacket Material	Wire Size (AWG)	Orientation	Cable Length	Engineering No.	Order No.
4	Double-ended	PUR over PVC jacket	PUR/PVC	0.25mm <sup>2</sup>	Fem-Str to Male-Str	0.3m	444030P02M003	1200878357
					Fem-Str to Male-Str	0.6m	444030P02M006	1200878358
					Fem-Str to Male-Str	1.0m	444030P02M010	1200878359
					Fem-Str to Male-Str	2.0m	444030P02M020	1200878360
					Fem-Str to Male-Str	3.0m	444030P02M030	1200878361
					Fem-Str to Male-Str	5.0m	444030P02M050	1200878362
					Fem-90 to Male-Str	0.3m	444031P02M003	1200878370
					Fem-90 to Male-Str	0.6m	444031P02M006	1200878371
					Fem-90 to Male-Str	1.0m	444031P02M010	1200878372
					Fem-90 to Male-Str	2.0m	444031P02M020	1200878197
					Fem-90 to Male-Str	3.0m	444031P02M030	1200878373
					Fem-Str to Male-90	0.6m	444032P02M006	1200878375
					Fem-Str to Male-90	2.0m	444032P02M020	1200878377
					Fem-90 to Male-90	0.6m	444033P02M006	1200878379
					Fem-90 to Male-90	1.0m	444033P02M010	1200878380
Fem-90 to Male-90	2.0m	444033P02M020	1200878381					

### Ethernet Brad® Micro-Change® (M12) Cordsets

Poles	Type	Wire/Cable Type	Cable Jacket Material	Wire Size (AWG)	Orientation	Cable Length	Engineering No.	Order No.
4	Double-ended	Unshielded-twisted pair	PVC	24AWG	Male-Str to Male-Str	10.0m	E11A06002M100	1201080038
						15.0m	E11A06002M150	1201080037
	Double-ended	Shielded-twisted pair	PUR	22AWG	Male-Str to Male-Str	2.0m	E11A06011M020	1201080199
						2.0m	E11A06311M020	1201080200
4p to RJ45	Double-ended	Shielded-twisted pair	PUR	22AWG	Fem-Str to Male-Str	3.0m	E16A03010M030	1201088064
4p to RJ45	Double-ended	Shielded-twisted pair	PUR	22AWG	Male-Str to Male-Str	3.0m	E16A06010M030	1201088059
4p to RJ45	Double-ended	Shielded-twisted pair	PUR	22AWG	Male-Str to Male-Str	2.0m	E66A06011M020	1201080202
4p to RJ45	Double-ended	Shielded-twisted pair	PUR	22AWG	Male-Str to Male-Str	2.0m	E16A06011M020	1201080203
4	Double-ended	Shielded-twisted pair	PUR	22AWG	Male-Str to Male-90	5.0m	EWWA06210M050	1201080100
	Double-ended	Shielded-twisted pair	PVC	26AWG	Male-90 to Male-90	1.0m	EWWA06315M010	1201080058

## Receptacles

### DeviceNet\* Brad® Mini-Change® Receptacles

Poles	Gender	Mounting Thread Size	Wire Size (AWG)	Length	Engineering No.	Order No.
5	Male	1/2" - 14 NPT	Shielded-twisted pair 22/24AWG	1.0m (3.28')	DND5100-M010	1300390327

\*DeviceNet is a trademark of the ODVA

### PROFIBUS Brad® Micro-Change® (M12) Receptacles

Poles	Gender	Mounting Thread Size	Wire Size (AWG)	Length	Engineering No.	Order No.
5	Male	M16 x 1.5, BPM	Shielded-twisted pair 22AWG	4m	BR5U76PP4M0403	1200990016

\*PROFIBUS is a trademark of PROFIBUS international

# Molex Europe Brad® Express Program

## Part Number Reference

[www.molex.com](http://www.molex.com)

### Brad® Micro-Change® (M12) Receptacles

Poles	Gender	Mounting Thread Size	Wire Size (AWG)	Length	Engineering No.	Order No.
4	Male	PG13.5	0.34mm <sup>2</sup>	0.3m	8R4D26E03C3003	1200700144
	Female	PG9		0.3m	8R4J30E03C3003	1200700395
	Male	PG9		0.3m	8R4J36E03C3003	1200700156
5	Male	PG13.5	0.34mm <sup>2</sup>	0.3m	8R5D26E03C3003	1200110031
	Female	M14x1		0.3m	8R5E30E03C3003	1200110033
	Female	PG9		0.3m	8R5J30E03C3003	1200700229
	Female	PG9		2.0m	8R5J36E03M0203	1200110038
	Male	PG9		0.3m	8R5J36E03C3003	1200700231
8	Male	PG9	0.34mm <sup>2</sup>	0.3m	8R8J36E03C3003	1200700267

### Brad® Mini-Change® Receptacles

Poles	Gender	Mounting Thread Size	Wire Size (AWG)	Length	Engineering No.	Order No.
3	Male	1/2" - 14 NPT	16AWG	1.0m	1R3006A20M010	1300130223
4	Female	1/2" - 14 NPT	16AWG	2.0m	1R4000A39M020	1300130301
4	Female	1/2" - 14 NPT	16AWG	3.0m	1R4000A39M030	1300130302
19	Female	PG16	3x0.75+16x0.34mm <sup>2</sup>	0.3m	3R3N30E80C300	1300150098
19	Female	PG16	3x0.75+16x0.34mm <sup>2</sup>	2.0m	3R3N30E80M020	1300150102
19	Male	PG16	3x0.75+16x0.34mm <sup>2</sup>	0.3m	3R3N36E80C300	1300150109
19	Male	PG16	3x0.75+16x0.34mm <sup>2</sup>	2.0m	3R3N36E80M020	1300150112

### Brad® Nano-Change® (M8) Receptacles

Poles	Gender	Mounting Thread Size	Wire Size (AWG)	Length	Engineering No.	Order No.
3	Male	M8 X 1, BPM	PCB pins	na	4R3F46000	1200905072
4	Male	M8 X 1, BPM	PCB pins	na	4R4F46000	1200905077
3	Female	M12 X 1, BPM	PCB pins	na	4R3L40001	1201490016
4	Female	M12 X 1, BPM	PCB pins	na	4R4L40001	1201490064
5	Female	M12 X 1, BPM	PCB pins	na	4R5L40001	1201490095
3	Male	M8 x 0.5	0.25mm <sup>2</sup>	0.3m	4R3F06E02C3003	1200310004
3	Female	M8 x 0.5	0.25mm <sup>2</sup>	0.3m	4R3F30E02C3003	1200310015
3	Male	M12 X 1, BPM	0.25mm <sup>2</sup>	0.2m	4R3F46E02C200	1200905073
3	Female	M12 X 1, BPM	0.25mm <sup>2</sup>	0.2m	4R3L40E02C200	1200905104
4	Male	M8 x 0.5	0.25mm <sup>2</sup>	0.3m	4R4F06E02C3003	1200310006
4	Female	M8 x 0.5	0.25mm <sup>2</sup>	0.3m	4R4F30E02C3003	1200310049
4	Male	M12 X 1, BPM	0.25mm <sup>2</sup>	0.2m	4R4F46E02C200	1200905078
5	Male	M8 x 0.5	0.25mm <sup>2</sup>	0.3m	4R5F06E02C3003	1200310027
5	Female	M8 x 0.5	0.25mm <sup>2</sup>	0.3m	4R5F30E02C3003	1200310028
5	Male	M12 X 1, BPM	0.25mm <sup>2</sup>	0.2m	4R5F46E02C200	1200905081

### Ethernet Brad® Micro-Change® (M12) Receptacles

Poles	Gender	Mounting Thread Size	Wire Size (AWG)	Length	Engineering No.	Order No.
4	Female	M16 x 1.5	PCB pins	na	ERWD2U30	1201095004
			22AWG	0.05m	ERWAAU3000C050	1201095001
			22AWG	0.2m	ERWAAU3000C200	1201098001
4p to RJ45	Female to RJ45 plug	M16 x 1.5, BPM	22AWG	1m	ERWPAB3002M010	1300580025
4	Female	PG9, BPM	22AWG	2.0m	ERWAAJ4002M020	1300540013
		M16 x 1.5, BPM	PCB pins	na	ERWD2U70	1201095005
		M16 x 1.5, BPM	22AWG	0.05m	ERWAAU7000C050	1201095002
		M16 x 1.5, BPM	22AWG	2.0m	ERWPAU7011M020	1201080206
4p to RJ45	Female to RJ45 jack	M16 x 1.5, BPM	na	na	ER1PADAPTER	1300540009
4p to RJ45	Female to RJ45 jack	M16 x 1.5, BPM	na	na	ER1PADAPTER90	1300540010

# Molex Europe Brad® Express Program

## Part Number Reference

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### Ethernet Brad® RJ-Lnxx Receptacles

Poles	Gender	Mounting Thread Size	Wire Size (AWG)	Length	Engineering No.	Order No.
RJ45	RJ45 jack to RJ45 jack	1" - 14unc	na	na	ENSP1F5	1300550001
				0.03m	ENSP3F5C305	1300550013
				3.0m	ENP2205M030	1300500004
	RJ45 jack to RJ45 plug	1" - 14unc	26AWG TP	0.03m	ENSP2F5C305	1300550010
	RJ45 jack to RJ45 plug	1" - 14unc	26AWG TP	1.0m	ENSP2F5M010	1300550011
				na	RJBG17756	1300580058
	Male	1" - 14 UNC	na	na	RJBG17946	1300580059

## Distribution Boxes

### Brad® Micro-Change® (M12) Distribution Boxes

Ports	Port Style	Home Run Connector	Orientation	Wiring/LED	Engineering No.	Order No.
4	M12 4p	PUR Cable (5m)	Top mount	Single IO, PNP Leds	BTY400P-FBP-05	1201148011
	M12 4p	Brad Mini-Change (12p)		Single IO, PNP Leds	BTY401P-FBB	1201140019
	M12 4p	M23 Connector (12p)		Single IO, PNP Leds	BTY401P-FBC	1201140020
	M12 5p	Field Attach Terminals		Dual IO, PNP Leds	BTY403P-FBA	1201140029
	M12 5p	PUR Cable (5m)		Dual IO, no Leds	BTY4050-FBP-05	1201140042
	M12 5p	PUR Cable (5m)		Dual IO, PNP Leds	BTY405P-FBP-05	1201140039
6	M12 5p	PUR Cable (10m)	Top mount	Dual IO, PNP Leds	BTY605P-FBP-10	1201140058
8	M12 4p	PUR Cable (5m)	Top mount	Single IO, PNP Leds	BTY800P-FBP-05	1201148022
	M12 4p	Brad Mini-Change (12p)		Single IO, PNP Leds	BTY801P-FBB	1201140065
	M12 4p	M23 Connector (12p)		Single IO, PNP Leds	BTY801P-FBC	1201140066
	M12 5p	Field Attach Terminals		Dual IO, PNP Leds	BTY803P-FBA	1201140082
	M12 5p	M23 Connector (19p)		Dual IO, PNP Leds	BTY803P-FBC	1201140084
	M12 5p	PUR Cable (5m)		Dual IO, PNP Leds	BTY805P-FBP-05	1201140089
	M12 5p	PUR Cable (10m)		Dual IO, PNP Leds	BTY805P-FBP-10	1201140090
	M12 5p	Molded Mini-Change (19p)		Dual IO, no Leds	BTY8120-FBE-003	1201140217
4	Ultra-Lock/M12 5p	Molded Mini-Change (19p)	Top mount	Dual IO, no Leds	BKY4120-FBP-01	1201190008
	M12 4p	Brad Mini-Change (12p)	Side mount	Single IO, PNP Leds	BSY401P-FBB	1201150002
8	M12 4p	Brad Mini-Change (12p)	Side mount	Single IO, PNP Leds	BSY801P-FBB	1201150007

### Brad® Nano-Change® (M8) Distribution Boxes

Ports	Port Style	Home Run Connector	Orientation	Wiring/LED	Engineering No.	Order No.
4	M8 3p	M16 Connector (14p)	Top/Side mount	Single IO, PNP Leds	BNY401P-FBC	1201130023
6					BNY601P-FBC	1201130026
8					BNY801P-FBC	1201130029
10					BNYA01P-FBC	1201130020
4		PUR Cable (5m)			BEY401P-FBP-05	1201130006
6		PUR Cable (5m)			BEY601P-FBP-05	1201130011
8		PUR Cable (5m)			BEY801P-FBP-05	1201130014
8		PUR Cable (10m)			BEY801P-FBP-10	1201130015
10		PUR Cable (5m)			BEYA01P-FBP-05	1201130002

# Molex Europe Brad® Express Program

## Part Number Reference

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### Brad® Distribution Boxes - Home Run Cables

Poles	Type	Related Distribution Box	Cable Jacket Material	Wire Size (AWG)	Orientation	Cable Length	Engineering No.	Order No.
12p/11w	"Mini-Change Single-ended"	BTY801x-FBB	PUR	3x0.75mm <sup>2</sup> + 8x0.34mm <sup>2</sup>	Fem - 90	10.0m	302101P80M100	1300080476
12p/7w	"Mini-Change Single-ended"	"BTY401x-FBB BSY401x-FBB"		3x0.75mm <sup>2</sup> + 4x0.34mm <sup>2</sup>	Fem - 90	10.0m	302301P80M100	1300088009
19p	"Mini-Change Single-ended"	"BKY42x-FBP-xxx BTY812x-FBx-xxx"		3x0.75mm <sup>2</sup> + 16x0.34mm <sup>2</sup>	Fem - Str	5.0m	303000P80M050	1300080303
19p	M23 Single-End	BTY803x-FBC		3x0.75mm <sup>2</sup> + 16x0.34mm <sup>2</sup>	Fem - 90	10.0m	K03001B20M100	1200945009
19p	M23 Single-End	BTY803x-FBC		3x0.75mm <sup>2</sup> + 16x0.34mm <sup>2</sup>	Fem - 90	15.0m	K03001B20M150	1200945031
12p/11w	M23 Single-End	BTY801x-FBC		3x0.75mm <sup>2</sup> + 8x0.34mm <sup>2</sup>	Fem - 90	10.0m	K02101P80M100	1200940125
12p/7w	M23 Single-End	BTY401x-FBC		3x0.75mm <sup>2</sup> + 4x0.34mm <sup>2</sup>	Fem - 90	10.0m	K02301P80M100	1200945023
14p/6w	M16 Single-End	BNY401x-FBC		22AWG	Fem - 90	10.0m	L04301M78M100	1300230063
14p/8w	M16 Single-End	BNY601x-FBC		22AWG	Fem - 90	10.0m	L04201M78M100	1300230059
14p/10w	M16 Single-End	BNY801x-FBC		22AWG	Fem - 90	10.0m	L04101M78M100	1300230055
14p/12w	M16 Single-End	BNYA01x-FBC		22AWG	Fem - 90	10.0m	L04A01M78M100	1300230068

## Tees and Splitters

### PROFIBUS Brad® Micro-Change® (M12) Tee

Poles	Left Trunk Gender	Drop Gender	Right Trunk Gender	Engineering No.	Order No.
5	Female	Female	Male	PDT501	1201010002

\*PROFIBUS is a trademark of PROFIBUS international

### Brad® Micro-Change® (M12) Splitters

Poles	Left Trunk Gender	Drop Gender	Right Trunk Gender	Engineering No.	Order No.
4	(2) Fem to Male	Yellow	na	81589R	1200680228
	(2) Fem to Male	Grey	na	81590R	1200680169
5	(2) Fem to Male	Yellow - TPE cable	2 x 0.6m	884A31K05M006	1200680212

## Accessories

Description	Material	Engineering No.	Order No.
Closure cap with bead chain, internal thread, A-size	RJ-Lnxx Closure cap	67-0300	1300580035
Closure cap with bead chain, external thread, A-size	M12 Closure cap	BG13213	1200170007
Terminator	PROFIBUS Terminator	B05506	1201020002
Shorting Plug	Mini-Change 12p plug	BG19732	1300180230



# Molex Europe Brad® Express Program

## Part Number Reference

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## DIN Connectors

### Brad® mPm® DIN Field Attachable Connectors

Type	Pitch	Poles	Wire Size	Cable Diameter (Ext. Jacket)	Engineering Number	Order Number
Form A	18.0mm	2 + ground	1.5mm <sup>2</sup> max.	4.0 - 9.0mm	C28200N2RSN	1212010034
Form Industrial	11.0mm	2 + ground	1.5mm <sup>2</sup> max.	4.0 - 9.0mm	C22200N2RSN	1212020012
Form B	10.0mm	2 + ground	1.5mm <sup>2</sup> max.	4.0 - 9.0mm	C92200N2TSN	1212030009
Form C	8.0mm	2 + ground	0.75mm <sup>2</sup> max.	3.0 - 5.5mm	C25200N2TSN	1212040010
Form Micro	9.4mm	2 + ground	0.75mm <sup>2</sup> max.	3.0 - 5.5mm	C29200N2TSN	1212050012

### Brad® mPm® DIN Bases

Type	Pitch	Poles	Wire Size	Engineering Number	Order Number
Form A	18.0mm	2 + ground	1.0mm <sup>2</sup> max.	B142000N2	1210120006
Form A	18.0mm	3 + ground	1.0mm <sup>2</sup> max.	B143000N2	1210120007
Form A	18.0mm	2 + ground	1.0mm <sup>2</sup> max.	B202000N2	1210120013
Form A	18.0mm	3 + ground	1.0mm <sup>2</sup> max.	B203000N2	1210120019
Form A	18.0mm	2 + ground	1.0mm <sup>2</sup> max.	B262000N2	1210120071
Form A	18.0mm	3 + ground	1.0mm <sup>2</sup> max.	B263000N2	1210120076
Form A	18.0mm	2 + ground	1.0mm <sup>2</sup> max.	B282000N2	1210120095
Form A	18.0mm	3 + ground	1.0mm <sup>2</sup> max.	B283000N2	1210120099

### Brad® mPm® DIN Cordsets

Type	Pitch	Poles	Cable Type	Wire Size	Cable Length	Engineering Number	Order Number
Form A Single-ended	18.0mm	2 + double ground	PVC	0.75mm <sup>2</sup>	5.0m	E152N3N50011	1210400589
Form A Single-ended	18.0mm	2 + double ground	CEI 2022	1.0mm <sup>2</sup>	5.0m	E152I4N50011	1210400084
Form A Single-ended	18.0mm	2 + double ground	UL PVC	0.75mm <sup>2</sup>	5.0m	E152A3A50011	1210400607
Form Industrial Single-ended	11.0mm ground H 12	2 + ground	PVC	0.50mm <sup>2</sup>	5.0m	E162N2N50021	1210400278
Form Industrial Single-ended	11.0mm ground H 6	2 + ground	PVC	0.50mm <sup>2</sup>	5.0m	E162N2N50061	1210401200
Form Industrial Single-ended	11.0mm ground H 6	2 + ground	CEI 2022	0.50mm <sup>2</sup>	5.0m	E162I2N50061	1210400891
Form Industrial Single-ended	11.0mm ground H 12	2 + ground	CEI 2022	0.50mm <sup>2</sup>	5.0m	E162I2N50021	1210400255
Form Industrial Single-ended	11.0mm ground H 6	2 + ground	UL PVC	0.50mm <sup>2</sup>	5.0m	E162A2A50061	1210401317
Form Industrial Single-ended	11.0mm ground H 12	2 + ground	UL PVC	0.50mm <sup>2</sup>	5.0m	E162A2A50021	1210401318
Form Micro Single-ended	9.4mm	2 + double ground	PVC	0.50mm <sup>2</sup>	5.0m	E332N2N50011	1210400451
Form Micro Single-ended	9.4mm	2 + double ground	CEI 2022	0.50mm <sup>2</sup>	5.0m	E332I2N50011	1210401299
Form Micro Single-ended	9.4mm	2 + double ground	UL PVC	0.50mm <sup>2</sup>	5.0m	E332A2A50011	1210401321
Form C Single-ended	8.0mm	2 + double ground	PVC	0.50mm <sup>2</sup>	5.0m	E432N2N50011	1210400500
Form C Single-ended	8.0mm	2 + double ground	CEI 2022	0.50mm <sup>2</sup>	5.0m	E432I2N50011	1210401297
Form C Single-ended	8.0mm	2 + double ground	UL PVC	0.50mm <sup>2</sup>	5.0m	E432A2A50011	1210401325