

4.20mm Pitch OTS Discrete Wire Harness Based on Molex Mini Fit Series WTB/WTW Connectors

A wide range of customers require high-current, high-density power connectors that also support design flexibility. To meet these needs, MOLEX's Mini-Fit Family Connectors offer polarized housings with isolated terminals, positive locks and low-engagement forces. All versions of Mini-Fit Jr. and Mini-Fit Plus Connectors are compatible with each other, including with Mini-Fit TPA2 and Mini-Fit BMI Components, bringing flexibility to the toughest design dilemmas.

Conbeone released the on-the-shelf cable assemblies based on molex Mini fit series connector. Customers can buy crimped leads to build cable assembly quickly and flexibly, or pick up on-the-shelf cable assembly directly which can be delivery within 1~2 work days. We also can customize cable assembly per customer's requirements quickly which lead time can be shorted to 5 workdays based on our huge stocks on connector and wires. The on-the-shelf cables could help customer to reduce costs associated with tooling, ease design requirements, expedite time to market and provide the convenience of using one vendor for the entire cable solution.

OTS Cable type:

1. Single Crimped Lead.
2. Wire Harness assembly.



Single Crimped Lead



Receptacle Cable Ass'y



Plug Cable Ass'y

Materials:

Housing:

- Mini fit Jr:
 - Single Row Receptacle:5557 Series
 - Dual Row Receptacle: 5557 Series
 - Single Row Plug: 5559 Series
 - Dual Row Plug: 5559 Series
- Mini Fit BMI (Customization Option, not Off the Shelf):
 - Dual Row Receptacle: 42474 Series
 - Dual Row Plug: 42475 Series
 - Dual Row Receptacle: 44516 Series (Slide & Lock)
- Mini Fit + HCS(Customization Option, not Off the Shelf):
 - Dual Row Receptacle: 46992 Series

Terminal:

- 39000038: Female Terminal, tin plated for 18~24awg wire.
- 39000040: Male Terminal, tin plated for 18~24awg wire.
- Other optional terminal, (Customization Option, not Off the Shelf)
 - 39000077: Female Terminal, tin plated for 16awg wire.
 - 39000079: Female Terminal, gold plated for 16awg wire.
 - 39000081: Male Terminal, tin plated for 16awg wire.
 - 457501111: Mini-Fit Plus Female Terminal, 18-20 AWG

4.20mm Wire Harness

Mini-fit Series

Hook Wire:

- UL1061 18AWG, 80°C, 300V.
- Other optional wires (Customization Option, not Off the Shelf)
 - UL1015 16AWG, 105°C, 600V.
 - Silicon Rubber Wire: UL3239 18AWG, 150°C, 3000V.
 - Fluoroplastic Wire: UL10362 18AWG / 16AWG, -100°C~250°C, 600V

Wire Color: Black, Red, Yellow, Blue, Orange, Green, White, Gray, Purple, Brown

Cable Length: 100mm, 200mm, 300mm, 500mm, 1000m off the shelf. Customization for other length.

Current Rating:

Mini Fit Jr.:

Table 3 – MAXIMUM CURRENT RATING (Amperes) Wire-to-Wire and Wire-to-Board									
Brass					Phosphor Bronze				
Ckt. Size Wire ²	2 & 3	4 - 6	7 - 10	12 - 24	Ckt. Size Wire ²	2 & 3	4 - 6	7 - 10	12 - 24
AWG#16	9	8	7	6	AWG#16	8	7	6	5
AWG#18	9	8	7	6	AWG#18	8	7	6	5
AWG#20	7	6	5	5	AWG#20	6	5	4	4
AWG#22	5	4	4	4	AWG#22	4	3	3	3
AWG#24	4	3	3	3	AWG#24	3	2	2	2
AWG#26	3	2	2	2	AWG#26	2	1	1	1
AWG#28	2	1	1	1	AWG#28	1	1	1	1

Note: PCB trace design may greatly affect temperature rise results in Wire-to-Board Applications.

Mini Fit+:

WIRE-TO-WIRE									
Wire Size	Single Row Circuit Sizes			Dual Row Circuit Sizes					
	3	4	5	2	4	6, 8	10, 12	14, 16, 18	20, 22, 24
16 AWG	13 A	12.5 A	12 A	13 A	12 A	11 A	10.5 A	10 A	9.5 A
18 AWG	11 A	10.5 A	10 A	11 A	10 A	9 A	8.5 A	8 A	7.5 A
20 AWG	9.5 A	9 A	9 A	9.5 A	8.5 A	8 A	7.5 A	7 A	6.5 A

WIRE-TO-BOARD									
Wire Size	Single Row Circuit Sizes			Dual Row Circuit Sizes					
	3	4	5	2	4	6, 8	10, 12	14, 16, 18	20, 22, 24
16 AWG	12.5 A	12 A	11.5 A	12.5 A	11.5 A	10 A	9 A	8.5 A	8.0 A
18 AWG	10.5 A	10 A	9.5 A	10.5 A	9.5 A	8.5 A	8 A	7.5 A	7 A
20 AWG	9 A	8.5 A	8.5 A	9 A	8 A	7 A	6.5 A	6 A	5.5 A

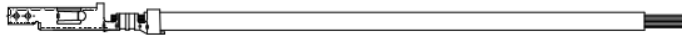
4.20mm Wire Harness

Mini-fit Series

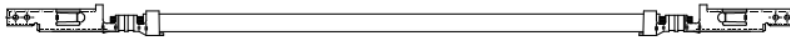
Order Information:

Crimped Lead:

Gender	Wire Size	Single End	Dual Ends	Wire Color	Terminal
Female	18AWG	CB020700-10X	CB020700-00X	Optional	39000038
Male	18AWG	CB020701-10X	CB020701-00X	Optional	39000040
Female to Male	18AWG	CB020702-00X		Optional	39000038 /39000040



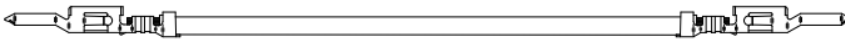
Female - Single End
母针- 单头



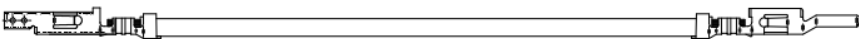
Female - Dual Ends
母针- 双头



Male - Single End
公针- 单头

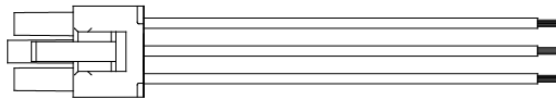


Male - Dual Ends
公针- 双头

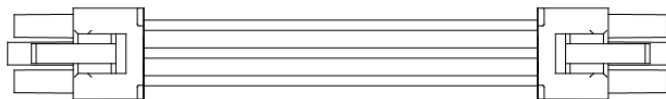


Male - Female
公母延长线

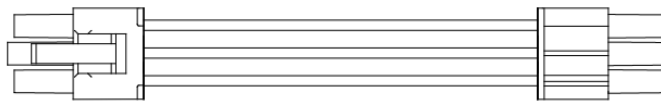
Cable ass'y--Receptacle--Single Row



Single End
单头



Dual Ends Type A
双头同向



Dual Ends Type B
双头反向

5557 Single Row Receptacle	CKTS	Single End	Dual Ends Type A	Dual Ends Type B	Housing P/N		Flammability
All Black Wires	2P	CB020711-02*	CB020712-02*	CB020713-02*	39-01-4020	5557-02R2	UL94V-2
	3P	CB020711-03*	CB020712-03*	CB020713-03*	39-01-4030	5557-03R2	
	4P	CB020711-04*	CB020712-04*	CB020713-04*	39-01-4040	5557-04R2	
	5P	CB020711-05*	CB020712-05*	CB020713-05*	39-01-4050	5557-05R2	
Colorful Wires	2P	CB020714-02*	CB020715-02*	CB020716-02*	39-01-4020	5557-02R2	UL94V-2
	3P	CB020714-03*	CB020715-03*	CB020716-03*	39-01-4030	5557-03R2	
	4P	CB020714-04*	CB020715-04*	CB020716-04*	39-01-4040	5557-04R2	
	5P	CB020714-05*	CB020715-05*	CB020716-05*	39-01-4050	5557-05R2	
All Black Wires	2P	CB020711-12*	CB020712-12*	CB020713-12*	39-01-4021	5557-02R2-210	UL94V-0
	3P	CB020711-13*	CB020712-13*	CB020713-13*	39-01-4031	5557-03R2-210	
	4P	CB020711-14*	CB020712-14*	CB020713-14*	39-01-4041	5557-04R2-210	
	5P	CB020711-15*	CB020712-15*	CB020713-15*	39-01-4051	5557-05R2-210	
Colorful Wires	2P	CB020714-12*	CB020715-12*	CB020716-12*	39-01-4021	5557-02R2-210	UL94V-0
	3P	CB020714-13*	CB020715-13*	CB020716-13*	39-01-4031	5557-03R2-210	
	4P	CB020714-14*	CB020715-14*	CB020716-14*	39-01-4041	5557-04R2-210	
	5P	CB020714-15*	CB020715-15*	CB020716-15*	39-01-4051	5557-05R2-210	

4.20mm Wire Harness

Mini-fit Series

东莞市康比旺电子科技有限公司

Dongguan Conbeone Electronics Technology co., Ltd

Cable ass'y--Receptacle--Dual Rows



单头
Single Ended



双头
Dual Ended

5557 Dual Row Receptacle	CKTS	Single End	Dual Ends	Housing P/N		Flammability
All Black Wires	2P	CB020703-02*	CB020704-02*	39-01-2020	5557-02R	UL94V-2
	4P	CB020703-04*	CB020704-04*	39-01-2040	5557-04R	
	6P	CB020703-06*	CB020704-06*	39-01-2060	5557-06R	
	8P	CB020703-08*	CB020704-08*	39-01-2080	5557-08R	
	10P	CB020703-10*	CB020704-10*	39-01-2100	5557-10R	
	12P	CB020703-12*	CB020704-12*	39-01-2120	5557-12R	
	14P	CB020703-14*	CB020704-14*	39-01-2140	5557-14R	
	16P	CB020703-16*	CB020704-16*	39-01-2160	5557-16R	
	18P	CB020703-18*	CB020704-18*	39-01-2180	5557-18R	
	20P	CB020703-20*	CB020704-20*	39-01-2200	5557-20R	
	22P	CB020703-22*	CB020704-22*	39-01-2220	5557-22R	
	24P	CB020703-24*	CB020704-24*	39-01-2240	5557-24R	
Colorful Wires	2P	CB020707-02*	CB020708-02*	39-01-2020	5557-02R	
	4P	CB020707-04*	CB020708-04*	39-01-2040	5557-04R	
	6P	CB020707-06*	CB020708-06*	39-01-2060	5557-06R	
	8P	CB020707-08*	CB020708-08*	39-01-2080	5557-08R	
	10P	CB020707-10*	CB020708-10*	39-01-2100	5557-10R	
	12P	CB020707-12*	CB020708-12*	39-01-2120	5557-12R	
	14P	CB020707-14*	CB020708-14*	39-01-2140	5557-14R	
	16P	CB020707-16*	CB020708-16*	39-01-2160	5557-16R	
	18P	CB020707-18*	CB020708-18*	39-01-2180	5557-18R	
	20P	CB020707-20*	CB020708-20*	39-01-2200	5557-20R	
	22P	CB020707-22*	CB020708-22*	39-01-2220	5557-22R	
	24P	CB020707-24*	CB020708-24*	39-01-2240	5557-24R	
All Black Wires	2P	CB020705-02*	CB020706-02*	39-01-2025	5557-02R-210	UL94V-0
	4P	CB020705-04*	CB020706-04*	39-01-2045	5557-04R-210	
	6P	CB020705-06*	CB020706-06*	39-01-2065	5557-06R-210	
	8P	CB020705-08*	CB020706-08*	39-01-2085	5557-08R-210	
	10P	CB020705-10*	CB020706-10*	39-01-2105	5557-10R-210	
	12P	CB020705-12*	CB020706-12*	39-01-2125	5557-12R-210	
	14P	CB020705-14*	CB020706-14*	39-01-2145	5557-14R-210	
	16P	CB020705-16*	CB020706-16*	39-01-2165	5557-16R-210	
	18P	CB020705-18*	CB020706-18*	39-01-2185	5557-18R-210	
	20P	CB020705-20*	CB020706-20*	39-01-2205	5557-20R-210	
	22P	CB020705-22*	CB020706-22*	39-01-2225	5557-22R-210	
	24P	CB020705-24*	CB020706-24*	39-01-2245	5557-24R-210	
Colorful Wires	2P	CB020709-02*	CB020710-02*	39-01-2025	5557-02R-210	
	4P	CB020709-04*	CB020710-04*	39-01-2045	5557-04R-210	
	6P	CB020709-06*	CB020710-06*	39-01-2065	5557-06R-210	
	8P	CB020709-08*	CB020710-08*	39-01-2085	5557-08R-210	
	10P	CB020709-10*	CB020710-10*	39-01-2105	5557-10R-210	
	12P	CB020709-12*	CB020710-12*	39-01-2125	5557-12R-210	
	14P	CB020709-14*	CB020710-14*	39-01-2145	5557-14R-210	
	16P	CB020709-16*	CB020710-16*	39-01-2165	5557-16R-210	
	18P	CB020709-18*	CB020710-18*	39-01-2185	5557-18R-210	
	20P	CB020709-20*	CB020710-20*	39-01-2205	5557-20R-210	
	22P	CB020709-22*	CB020710-22*	39-01-2225	5557-22R-210	
	24P	CB020709-24*	CB020710-24*	39-01-2245	5557-24R-210	

4.20mm Wire Harness

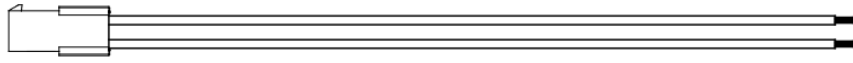
Mini-fit Series

Cable ass'y--Plug--Dual Rows

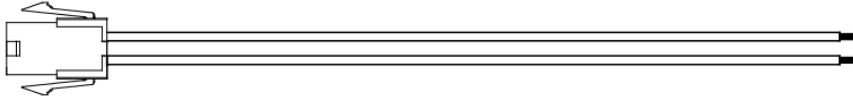


单头 不带耳朵

Single End
Without Mount Ears



39-01-3xx3 / 39-01-3xx9
5559-xxP1 / 5559-xxP1-210



单头 带耳朵

Single End
With Mount Ears



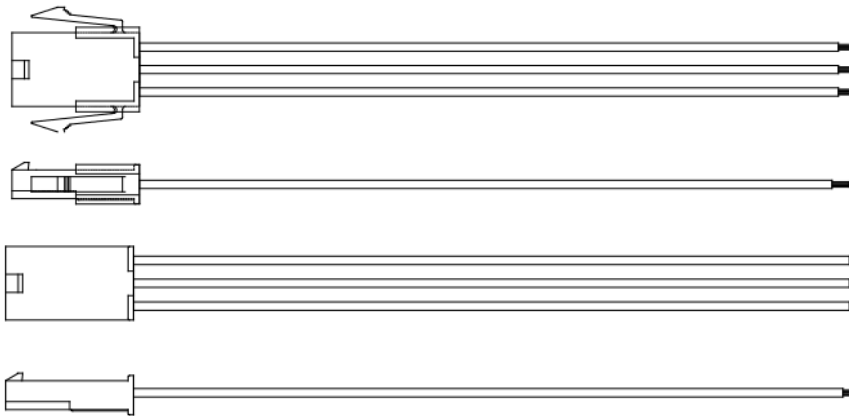
39-01-2xx1 / 39-01-2xx6
5559-xxP / 5559-xxP-210

5559 Dual Row Receptacle	CKTS	Single End	Housing P/N		Flammability
All Black Wires With Panel Mount Ears	2P	CB020718-02*	39-01-2021	5559-02P	UL94V-2
	4P	CB020718-04*	39-01-2041	5559-04P	
	6P	CB020718-06*	39-01-2061	5559-06P	
	8P	CB020718-08*	39-01-2081	5559-08P	
	10P	CB020718-10*	39-01-2101	5559-10P	
	12P	CB020718-12*	39-01-2121	5559-12P	
	14P	CB020718-14*	39-01-2141	5559-14P	
	16P	CB020718-16*	39-01-2161	5559-16P	
	18P	CB020718-18*	39-01-2181	5559-18P	
	20P	CB020718-20*	39-01-2201	5559-20P	
	22P	CB020718-22*	39-01-2221	5559-22P	
	24P	CB020718-24*	39-01-2241	5559-24P	
All Black Wires Without Panel Mount Ears	2P	CB020719-02*	39-01-3023	5559-02P1	
	4P	CB020719-04*	39-01-3043	5559-04P1	
	6P	CB020719-06*	39-01-3063	5559-06P1	
	8P	CB020719-08*	39-01-3083	5559-08P1	
	10P	CB020719-10*	39-01-3103	5559-10P1	
	12P	CB020719-12*	39-01-3123	5559-12P1	
	14P	CB020719-14*	39-01-3143	5559-14P1	
	16P	CB020719-16*	39-01-3163	5559-16P1	
	18P	CB020719-18*	39-01-3183	5559-18P1	
	20P	CB020719-20*	39-01-3203	5559-20P1	
	22P	CB020719-22*	39-01-3223	5559-22P1	
	24P	CB020719-24*	39-01-3243	5559-24P1	
All Black Wires With Panel Mount Ears	2P	CB020720-02*	39-01-2026	5559-02P-210	UL94V-0
	4P	CB020720-04*	39-01-2046	5559-04P-210	
	6P	CB020720-06*	39-01-2066	5559-06P-210	
	8P	CB020720-08*	39-01-2086	5559-08P-210	
	10P	CB020720-10*	39-01-2106	5559-10P-210	
	12P	CB020720-12*	39-01-2126	5559-12P-210	
	14P	CB020720-14*	39-01-2146	5559-14P-210	
	16P	CB020720-16*	39-01-2166	5559-16P-210	
	18P	CB020720-18*	39-01-2186	5559-18P-210	
	20P	CB020720-20*	39-01-2206	5559-20P-210	
	22P	CB020720-22*	39-01-2226	5559-22P-210	
	24P	CB020720-24*	39-01-2246	5559-24P-210	
All Black Wires Without Panel Mount Ears	2P	CB020721-02*	39-01-3029	5559-02P1-210	
	4P	CB020721-04*	39-01-3049	5559-04P1-210	
	6P	CB020721-06*	39-01-3069	5559-06P1-210	
	8P	CB020721-08*	39-01-3089	5559-08P1-210	
	10P	CB020721-10*	39-01-3109	5559-10P1-210	
	12P	CB020721-12*	39-01-3129	5559-12P1-210	
	14P	CB020721-14*	39-01-3149	5559-14P1-210	
	16P	CB020721-16*	39-01-3169	5559-16P1-210	
	18P	CB020721-18*	39-01-3189	5559-18P1-210	
	20P	CB020721-20*	39-01-3209	5559-20P1-210	
	22P	CB020721-22*	39-01-3229	5559-22P1-210	
	24P	CB020721-24*	39-01-3249	5559-24P1-210	

4.20mm Wire Harness

Mini-fit Series

Cable ass'y--Plug--Single Row

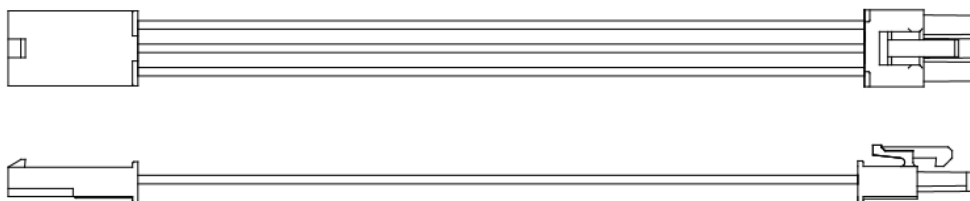


单头 不带耳朵
Single End
Without Mount Ears

单头 带耳朵
Single End
With Mount Ears

5557 Single Row Receptacle	CKTS	Single End	Housing P/N		Flammability
All Black Wires With Panel Mount Ears	3P	CB020722-03*	39-01-4032	5559-03P2	UL94V-2
	4P	CB020722-04*	39-01-4042	5559-04P2	
	5P	CB020722-05*	39-01-4052	5559-05P2	
All Black Wires Without Panel Mount Ears	3P	CB020723-03*	39-01-4036	5559-03P3	
	4P	CB020723-04*	39-01-4046	5559-04P3	
	5P	CB020723-05*	39-01-4056	5559-05P3	
All Black Wires With Panel Mount Ears	3P	CB020722-13*	39-01-4033	5559-03P2-210	UL94V-0
	4P	CB020722-14*	39-01-4043	5559-04P2-210	
	5P	CB020722-15*	39-01-4053	5559-05P2-210	
All Black Wires Without Panel Mount Ears	3P	CB020723-13*	39-01-4037	5559-03P3-210	
	4P	CB020723-14*	39-01-4047	5559-04P3-210	
	5P	CB020723-15*	39-01-4057	5559-05P3-210	

Cable ass'y--Single Row--Extension Cable



延长线, 公头不带耳朵
Extension Cable
Plug Without Mount Ears

Extension Cable Single Row	CKTS	Single End	Housing 1 P/N		Housing 2 P/N		Flammability
All Black Wires Without Panel Mount Ears	3P	CB020723-03*	39-01-4030	5557-03R2	39-01-4036	5559-03P3	UL94V-2
	4P	CB020723-04*	39-01-4040	5557-04R2	39-01-4046	5559-04P3	
	5P	CB020723-05*	39-01-4050	5557-05R2	39-01-4056	5559-05P3	

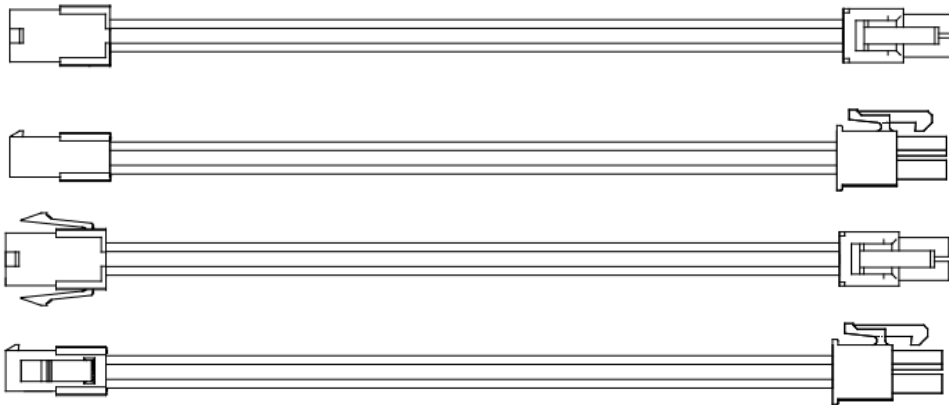
4.20mm Wire Harness

Mini-fit Series

东莞市康比旺电子科技有限公司

Dongguan Conbeone Electronics Technology co., Ltd

Cable ass'y--Dual Row--Extension Cable



延长线，公头不带耳朵

Extension Cable
Plug Without Mount Ears

延长线，公头带耳朵

Extension Cable
Plug With Mount Ears

Extension Cable Dual Row	CKTS	F TO M	Housing 1 P/N		Housing 2 P/N		Flammability
All Black Wires Plug With Panel Mount Ears	2P	CB020724-02*	39-01-2020	5557-02R	39-01-2021	5559-02P	UL94V-2
	4P	CB020724-04*	39-01-2040	5557-04R	39-01-2041	5559-04P	
	6P	CB020724-06*	39-01-2060	5557-06R	39-01-2061	5559-06P	
	8P	CB020724-08*	39-01-2080	5557-08R	39-01-2081	5559-08P	
	10P	CB020724-10*	39-01-2100	5557-10R	39-01-2101	5559-10P	
	12P	CB020724-12*	39-01-2120	5557-12R	39-01-2121	5559-12P	
	14P	CB020724-14*	39-01-2140	5557-14R	39-01-2141	5559-14P	
	16P	CB020724-16*	39-01-2160	5557-16R	39-01-2161	5559-16P	
	18P	CB020724-18*	39-01-2180	5557-18R	39-01-2181	5559-18P	
	20P	CB020724-20*	39-01-2200	5557-20R	39-01-2201	5559-20P	
All Black Wires Plug Without Panel Mount Ears	2P	CB020725-02*	39-01-2020	5557-02R	39-01-3023	5559-02P1	UL94V-2
	4P	CB020725-04*	39-01-2040	5557-04R	39-01-3043	5559-04P1	
	6P	CB020725-06*	39-01-2060	5557-06R	39-01-3063	5559-06P1	
	8P	CB020725-08*	39-01-2080	5557-08R	39-01-3083	5559-08P1	
	10P	CB020725-10*	39-01-2100	5557-10R	39-01-3103	5559-10P1	
	12P	CB020725-12*	39-01-2120	5557-12R	39-01-3123	5559-12P1	
	14P	CB020725-14*	39-01-2140	5557-14R	39-01-3143	5559-14P1	
	16P	CB020725-16*	39-01-2160	5557-16R	39-01-3163	5559-16P1	
	18P	CB020725-18*	39-01-2180	5557-18R	39-01-3183	5559-18P1	
	20P	CB020725-20*	39-01-2200	5557-20R	39-01-3203	5559-20P1	
All Black Wires Plug With Panel Mount Ears	2P	CB020726-02*	39-01-2025	5557-02R-210	39-01-2026	5559-02P-210	UL94V-0
	4P	CB020726-04*	39-01-2045	5557-04R-210	39-01-2046	5559-04P-210	
	6P	CB020726-06*	39-01-2065	5557-06R-210	39-01-2066	5559-06P-210	
	8P	CB020726-08*	39-01-2085	5557-08R-210	39-01-2086	5559-08P-210	
	10P	CB020726-10*	39-01-2105	5557-10R-210	39-01-2106	5559-10P-210	
	12P	CB020726-12*	39-01-2125	5557-12R-210	39-01-2126	5559-12P-210	
	14P	CB020726-14*	39-01-2145	5557-14R-210	39-01-2146	5559-14P-210	
	16P	CB020726-16*	39-01-2165	5557-16R-210	39-01-2166	5559-16P-210	
	18P	CB020726-18*	39-01-2185	5557-18R-210	39-01-2186	5559-18P-210	
	20P	CB020726-20*	39-01-2205	5557-20R-210	39-01-2206	5559-20P-210	
All Black Wires Plug Without Panel Mount Ears	2P	CB020727-02*	39-01-2025	5557-02R-210	39-01-3029	5559-02P1-210	UL94V-0
	4P	CB020727-04*	39-01-2045	5557-04R-210	39-01-3049	5559-04P1-210	
	6P	CB020727-06*	39-01-2065	5557-06R-210	39-01-3069	5559-06P1-210	
	8P	CB020727-08*	39-01-2085	5557-08R-210	39-01-3089	5559-08P1-210	
	10P	CB020727-10*	39-01-2105	5557-10R-210	39-01-3109	5559-10P1-210	
	12P	CB020727-12*	39-01-2125	5557-12R-210	39-01-3129	5559-12P1-210	
	14P	CB020727-14*	39-01-2145	5557-14R-210	39-01-3149	5559-14P1-210	
	16P	CB020727-16*	39-01-2165	5557-16R-210	39-01-3169	5559-16P1-210	
	18P	CB020727-18*	39-01-2185	5557-18R-210	39-01-3189	5559-18P1-210	
	20P	CB020727-20*	39-01-2205	5557-20R-210	39-01-3209	5559-20P1-210	

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