Science.
Applied to Life.™

3M™ Scotchlok™ Insulation Displacement Connector (IDC) Selection Guide

July 2016

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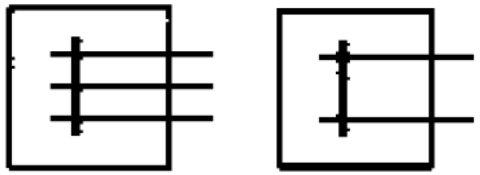
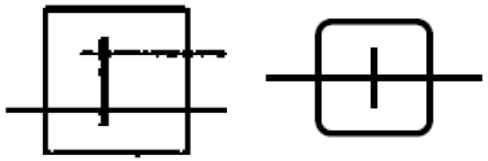
What type of connection are you making?

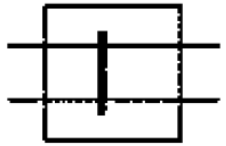
PIGTAIL



RUN/TAP



DOUBLE RUN



FUSE HOLDER

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What is the gauge of your tap wire?

22-20 AWG

18 AWG

16 AWG

14 AWG solid

14 AWG stranded

DOUBLE RUN

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Do you need UL and/or CSA Certification?

YES

NO

DOUBLE RUN

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Do you need moisture resistance?

YES

NO

PIGTAIL

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Does the connection need to be disconnectable?

YES

NO

RUN/TAP

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Do you need moisture resistance?

YES

NO

RUN/TAP

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What is the gauge of your run wire?

22-20 AWG

18-14 AWG

12-10 AWG

RUN/TAP

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Which style disconnect?

0.250” Tab

0.156” Dia Bullet

DISCONNECT

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What is the gauge of your wire?

22-20 AWG

18 AWG

16-14 AWG

12 AWG

DISCONNECT

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3M™ Scotchlok™ Fuse Holder 972-A

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
972-A		Fuse Holder	0.150" (3,81 mm)	18-14 (0,75-1,5)	105ºC (221ºF)	---

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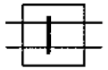
3M™ Scotchlok™ IDC Double Run Connector 560N

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
560N		Flame Retardant	0.145" (3,68 mm)	18-16 (0,75-1,5) Solid/Stranded 14 Stranded	105ºC (221ºF)	

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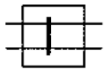
3M™ Scotchlok™ IDC Double Run Connector 564

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
564		Dry Environment Applications	0.145" (3,68 mm)	18-14 (0,75-1,5)	90ºC (194ºF)	MADE IN USA

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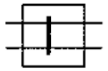
3M™ Scotchlok™ IDC Double Run Connector 905N

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
905N		Low Voltage (Automotive) Applications	0.110" (2,79 mm) Tap 0.145" (3,68 mm) Run	22-18 (0,5-1,0) Tap 18-14 (0,75-1,5) Run	90ºC (194ºF)	MADE IN USA

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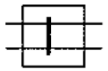
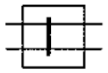
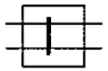
3M™ Scotchlok™ IDC Double Run Connector Comparison

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
560N		Flame Retardant	0.145" (3,68 mm)	18-16 (0,75-1,5) Solid/Stranded 14 Stranded	105ºC (221ºF)	UL CSA MADE IN USA
564		Dry Environment Applications	0.145" (3,68 mm)	18-14 (0,75-1,5)	90ºC (194ºF)	MADE IN USA
905N		Low Voltage (Automotive) Application	0.110" (2,79 mm) Tap 0.145" (3,68 mm) Run	22-18 (0,5-1,0) Tap 18-14 (0,75-1,5) Run	90ºC (194ºF)	MADE IN USA

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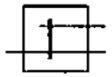
3M™ Scotchlok™ IDC Run/Tap Connector 558

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
558*		Flame Retardant	0.120" (3,05 mm)	22-16 (0,5-1,5)	105ºC (221ºF)	

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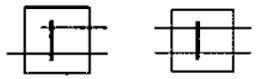
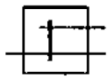
3M™ Scotchlok™ Run/Tap IDC Connector 562 and 567

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
562		Run & Tap Splicing Flame Retardant	0.190" (4,82 mm)	12-10 (3,0-4,0) Solid/Stranded 10 Stranded	90ºC (194ºF)	UL MADE IN USA
567		Dual Element Connection Flame Retardant	0.145" (3,68 mm) Tap 0.190" (4,82 mm) Run	18-14 (0,75-1,5) Tap 12-10 (3,0-4,0) Run	105ºC (221ºF)	UL CSA MADE IN USA

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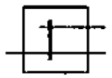
3M™ Scotchlok™ IDC Run/Tap Connector 804

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
804		Moisture Resistant Applications Flame Retardant	0.145" (3,68 mm)	18-16 (0,75-1,5) Solid/Stranded 14 Stranded	75ºC (167ºF)	

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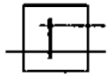
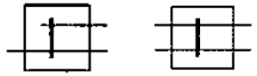
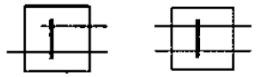
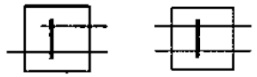
3M™ Scotchlok™ IDC Run/Tap Connector Comparison

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
558*		Flame Retardant	0.120" (3,05 mm)	22-16 (0,5-1,5)	105ºC (221ºF)	
560		Flame Retardant	0.145" (3,68 mm)	18-16 (0,75-1,5) Solid/Stranded 14 Stranded	105ºC (221ºF)	
560B		Run & Tap Splicing Flame Retardant	0.145" (3,68 mm)	18-16 (0,75-1,5) Solid/Stranded 14 Stranded	105ºC (221ºF)	
905		Low Voltage (Automotive) Applications	0.110" (2,79 mm) Tap 0.145" (3,68 mm) Run	22-18 (0,5-1,0) Tap 18-14 (0,75-1,5) Run	90ºC (194ºF)	

*Also tested in accordance with UL Standard for Portable Electric Lamps, UL 153 paragraph 15, when housed within the body of the lamp.

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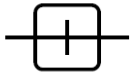
3M™ Scotchlok™ IDC 901

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
901		Disconnect	0.145" (3,68 mm)	18-14 (0,75-1,5)	90ºC (194ºF)	MADE IN USA

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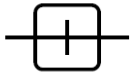
3M™ Scotchlok™ T-Tap Connector 951

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
951		T-Tap Disconnect Flame Retardant	0.150" (3,81 mm)	22-18 (0,5-1,0)	105ºC (221ºF)	

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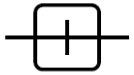
3M™ Scotchlok™ T-Tap Connector 952

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
952		T-Tap Disconnect Flame Retardant	0.150" (3,81 mm)	18-14 (0,75-1,5)	105ºC (221ºF)	

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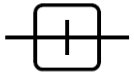
3M™ Scotchlok™ T-Tap Connector 953

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
953		T-Tap Disconnect Flame Retardant	0.150" (3,81 mm)	12 (3,0)	105ºC (221ºF)	

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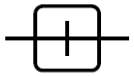
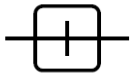
3M™ Scotchlok™ T-Tap Connector Comparison

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
951		T-Tap Disconnect Flame Retardant	0.150" (3,81 mm)	22-18 (0,5-1,0)	105ºC (221ºF)	
952		T-Tap Disconnect Flame Retardant	0.150" (3,81 mm)	18-14 (0,75-1,5)	105ºC (221ºF)	

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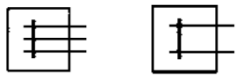
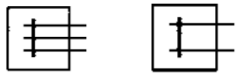
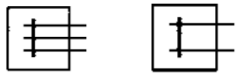
3M™ Scotchlok™ Moisture Resistant Pigtail Connectors Comparison

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
314		Moisture Resistant Seal, Flame Retardant	0.155" (3,94 mm)	22-14 (0,5-1,5)	105ºC (221ºF)	UL CSA MADE IN USA
316IR		Moisture Resistant Applications	0.155" (3,94 mm)	22-16 (0,5-1,5)	105ºC (221ºF)	UL MADE IN USA
MGC		Moisture Guard Applications	0.210" (5,33 mm) Outer Port 0.150" (3,81 mm) Inner Port	Outer Ports 12 str,14 –16 sol/str (2,5-1,0) Inner Port 18 sol/str, 20 str (0,5)	105ºC (221ºF)	UL MADE IN USA

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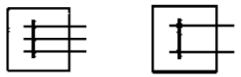
3M™ Scotchlok™ Non-Moisture Resistant Pigtail Connectors Comparison

Connector	Type Connector	Special Features	Maximum Insulation	AWG (mm^2) Wire Range	Operating Temperature	UL or CSA Certified
314U		Dry Environment Applications Flame Retardant	0.155" (3,94 mm)	22-14 (0,5-1,5)	105ºC (221ºF)	
557		Dual Element Connection Flame Retardant	0.120" (3,05 mm)	22-16 (0,5-1,5)	105ºC (221ºF)	

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