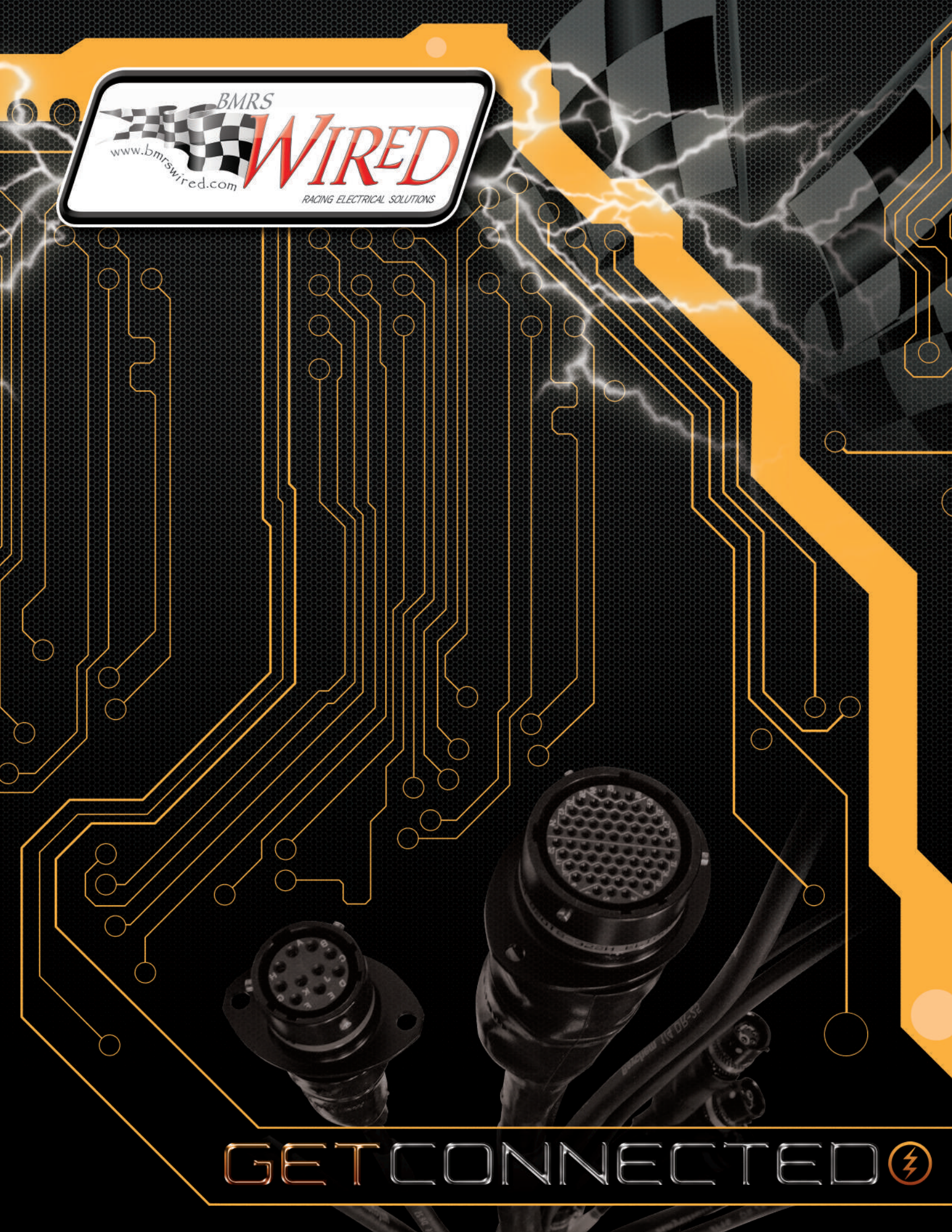

BMRS
WIRED
www.bmrswired.com
RACING ELECTRICAL SOLUTIONS
GETCONNECTED

Brown & Miller Racing Solutions

BMRS WIRED RACING ELECTRICAL SOLUTIONS

WIRED strives to be your one-stop shop for all your race car wiring solutions. The company began wiring race cars in 1999 as a test project run by a team of automotive wiring and electronics industry veterans that could not resist the urge to tinker. Our harnesses were first used by top teams in the NASCAR Cup Series and soon spread to other major series. It was hard to hold back the enthusiasm. It may have started as a backroom project at Brown & Miller Racing Solutions (BMRS) but we are now proud to offer you our electrical expertise division of BMRS, WIRED.

Currently, we stock a complete line of the best wire, connectors and accessories available to wire up your race car. Our staff is knowledgeable in most electrical components (just ask) used on race cars today. We pride ourselves on staying current with new technology developments that can improve the race car electrical system. In addition to components, WIRED has a complete wire harness assembly shop and can custom-build you a complete wire harness system specifically for your car.

We are still located in Concord, NC, our facility now houses a large selection of components as well as custom designed harness assembly stations. Our use of modern wire processing equipment allows us to build the highest quality harness possible and we'll back it up with CAD drawings. Read more about our harness services starting on page XXX.

We are proud to present this catalog of products and services. Stop by and see us or give us a call, we are here to serve you.

Brown & Miller Racing Solutions
WIRED Racing Electrical Solutions
4014 Dearborn Place, NW
Concord, NC 28027
Phone: 704.793.4319
Fax: 704.793.4321
E-mail Wired@BMRSUSA.com
Website: www.BMRSWIRED.com

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Be sure to visit our website for NEW and updated product, detailed specifications, demonstration videos, upcoming events and more!

www.BMRSWIRED.com

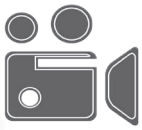
Products



Product: We strive to give you the most comprehensive, up-to-date and detailed information as possible. However, we are always updating our website with **NEW** and updated product and information that may have not been available for this catalog. We encourage you to visit us online to see any product or information not featured at www.bmrswired.com.

CAD Models & Drawings: Available online for detailed specifications on current products or for the design and manufacturing process. Contact us for more information.

Demonstration Videos: Available for help tools on the assembly process of our connection systems. Be sure to check as new videos are being added (www.bmrs.net).



Upcoming Events and Trade Shows

Be sure to check our website at www.bmrs.net to see what's happening with upcoming Events and Trade Shows to see where we will be next. *We look forward to seeing you there!*



Visit Us on Facebook and Instagram

Meet the Team! Connect with us on Facebook and Instagram to keep up with the latest news, videos and pictures.

Feel free to share your comments, pictures and videos as well. We always welcome comments and feedback.

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Table of Contents

1 WIRE XXX

M22759 Mil-Spec Wire . . . XXX
M27500 Twisted Shielded Wire . . . XXX
Heavy Gauge Wire . . . XXX
Specialty Wire . . . XXX

2 Heat Shrink Products XXX

DR-25 . . . XXX
Versafit . . . XXX
Dual Wall Adhesive Lined . . . XXX
Colored Polyolefin . . . XXX
Shrink Boots . . . XXX
Shapes and Transitions . . . XXX

3 Connectors XXX

Deutsch DT Series Connectors . . . XXX
Deutsch DTM Series Connectors . . . XXX
Deutsch DTP Series Connectors . . . XXX
Deutsch DTHD Series Connectors . . . XXX
Deutsch HD10, HDP20 & HD30 Series Twist Lock Connectors . . . XXX
Deutsch Contacts . . . XXX
Deutsch Autosport Series Connectors . . . XXX
Delphi Weather Pack Series Connectors . . . XXX
Delphi Weather Pack Series Contacts . . . XXX
Specialty Connectors . . . XXX

4 Terminal Hardware XXX

Ring Terminals . . . XXX
Spade Terminals . . . XXX
Butt Splices . . . XXX

5 Switches XXX

Toggle Switches- Eaton . . . XXX
Toggle Switches- Honeywell Micro Switch™ . . . XXX
Toggle Switches- Klixon® . . . XXX
Relays . . . XXX
Solenoids . . . XXX

6 Battery Accessories XXX

Battery Plugs . . . XXX
Battery Switches / Master Disconnect Switches . . . XXX
Miscellaneous Battery Accessories . . . XXX

7 Circuit Breakers XXX

Self Resetting Circuit Breakers . . . XXX
Manually Operated Circuit Breakers . . . XXX

8 Lamps and LEDs XXX

Panel Mounted LEDs . . . XXX

9 Tooling XXX

Crimping Tools . . . XXX
Contact Removal Tools . . . XXX

10 Tapes & Adhesives XXX

Polyimide Tape (Kapton – TM – Tape) . . . XXX
Polyolefin Hot-Melt Adhesive Tape . . . XXX
Two-Part Epoxy . . . XXX

11 Wire Harnesses XXX

Custom Harness Design & Modular Design . . . XXX
Quality Control & Documentation . . . XXX
Battery Kits . . . XXX

12 Boots & Transitions XXX

XXXXXXXXXXXXX . . . XXX
XXXXXXXXXXXXX . . . XXX
XXXXXXXXXXXXX . . . XXX

M22759 Mil-Spec Wire

WIRED stocks many wire types including M22759 mil spec wire used by many top race teams world wide. M22759 mil-spec wire works well for most race car applications. See the sections below for detailed wire specifications.

M22759 Mil Spec Wire

M22759 mil-spec wire is ETFE coated and rated at 150°C (302°F). It has a tin plated copper conductor and is rated at 600V. It is resistant to a variety of chemicals and solvents with good flexibility, mechanical toughness and resistance to abrasion. That is why it is a versatile and reliable wire for most motorsports applications.

M22759 Part# Decoded:

Follow this example to understand how to read the part number.

M22759/18-12-2 : 12 Gauge Red wire
M22759/xx-yy-zz

xx Designates the conductor and insulation properties. The most commonly used is /16 (Standard insulation thickness) or /18 (Thin-wall insulation thickness) both with a tin plated copper conductor. There are many /xx numbers which designate other insulation properties and conductor types. WIRED stocks primarily /18 but also many sizes of /16.

yy Wire gauge size

zz Designates the wire color. A single digit represents a solid wire color. 2 digits specify a striped wire; the first digit is the solid color and the second digit is the stripe color. The color digits correspond with the Resistor Color Codes which are shown below.

Resistor Color Code:
0 - Black, 1 - Brown, 2 - Red, 3 - Orange, 4 - Yellow, 5 - Green, 6 - Blue, 7 - Violet, 8 - Gray, 9 - White

2AWG Wire (Per Foot)



Color	Part No.
M22759 Mil-Spec Wire	
Black	M22759/16-2-0
Red	M22759/16-2-2

8AWG Wire (Per Foot)



Color	Part No.
M22759 Mil-Spec Wire	
Black	M22759/16-8-0
Red	M22759/16-8-2

4AWG Wire (Per Foot)



Color	Part No.
M22759 Mil-Spec Wire	
Black	M22759/16-4-0
Red	M22759/16-4-2
White	M22759/16-4-9

10AWG Wire (100' Spools)



Color	Part No.
M22759 Mil-Spec Wire	
Black	M22759/16-10-0
Red	M22759/16-10-2
Green	M22759/16-10-5
White	M22759/16-10-9

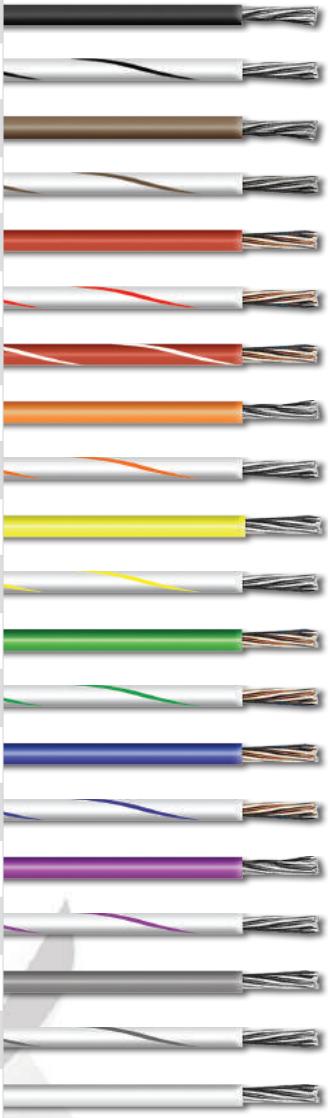
6AWG Wire (Per Foot)



Color	Part No.
M22759 Mil-Spec Wire	
Black	M22759/16-6-0
Red	M22759/16-6-2

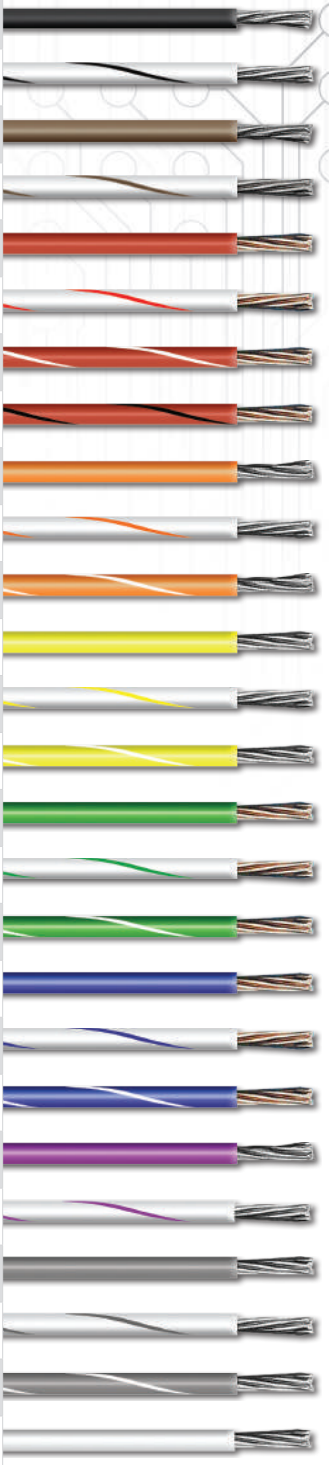
12AWG Wire (100' Spools)

Color	Part No.
M22759 Mil-Spec Wire	
Black	**M22759/32-12-0** M22759/18-12-0
White w/Black stripe	**M22759/32-12-90** M22759/18-12-90
Brown	**M22759/32-12-1** M22759/18-12-1
White w/Brown stripe	**M22759/32-12-91** M22759/18-12-91
Red	**M22759/32-12-2** M22759/18-12-2
White w/Red stripe	**M22759/32-12-92** M22759/18-12-92
Red w/White Stripe	**M22759/32-12-29** M22759/18-12-29
Orange	**M22759/32-12-3** M22759/18-12-3
White w/Orange stripe	**M22759/32-12-93** M22759/18-12-93
Yellow	**M22759/32-12-4** M22759/18-12-4
White w/Yellow stripe	**M22759/32-12-94** M22759/18-12-94
Green	**M22759/32-12-5** M22759/18-12-5
White w/Green Stripe	**M22759/32-12-95** M22759/18-12-95
Blue	**M2275932-12-6** M22759/18-12-6
White w/Blue Stripe	**M22759/32-12-96** M22759/18-12-96
Violet	**M22759/32-12-7** M22759/18-12-7
White w/Violet Stripe	**M22759/32-12-97** M22759/18-12-97
Grey	**M22759/32-12-8** M22759/18-12-8
White w/Grey Stripe	**M22759/32-12-98** M22759/18-12-98
White	**M22759/32-12-9** M22759/18-12-9

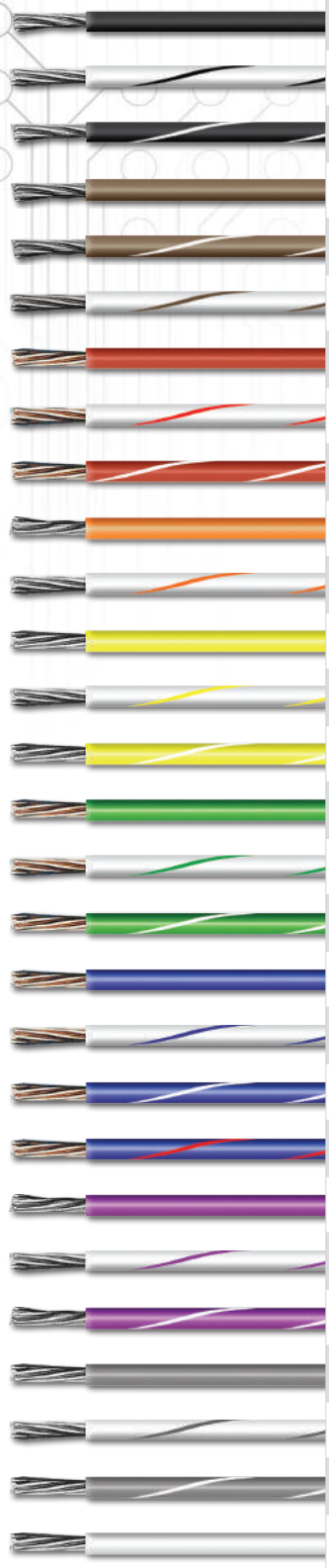


14AWG Wire (100' Spools)

Color	Part No.
M22759 Mil-Spec Wire	
Black	**M22759/32-14-0** M22759/18-14-0
White w/Black stripe	**M22759/32-14-90** M22759/18-14-90
Brown	**M22759/32-14-1** M22759/18-14-1
White w/Brown stripe	**M22759/32-14-91** M22759/18-14-91
Red	**M22759/32-14-2** M22759/18-14-2
White w/Red stripe	**M22759/32-14-92** M22759/18-14-92
Red w/White Stripe	**M22759/32-14-29** M22759/18-14-29
Red w/Black Stripe	**M22759/32-14-20** M22759/18-14-20
Orange	**M22759/32-14-3** M22759/18-14-3
White w/Orange stripe	**M22759/32-14-93** M22759/18-14-93
Orange w/White Stripe	**M22759/32-14-39** M22759/18-14-39
Yellow	**M22759/32-14-4** M22759/18-14-4
White w/Yellow stripe	**M22759/32-14-94** M22759/18-14-94
Yellow w/White Stripe	**M22759/32-14-49** M22759/18-14-49
Green	**M22759/32-14-5** M22759/18-14-5
White w/Green Stripe	**M22759/32-14-95** M22759/18-14-95
Green w/White Stripe	**M22759/32-14-59** M22759/18-14-59
Blue	**M22759/32-14-6** M22759/18-14-6
White w/Blue Stripe	**M22759/32-14-96** M22759/18-14-96
Blue w/White Stripe	**M22759/32-14-69** M22759/18-14-69
Violet	**M22759/32-14-7** M22759/18-14-7
White w/Violet Stripe	**M22759/32-14-97** M22759/18-14-97
Grey	**M22759/32-14-8** M22759/18-14-8
White w/Grey Stripe	**M22759/32-14-98** M22759/18-14-98
Grey w/White Stripe	**M22759/32-14-89** M22759/18-14-89
White	**M22759/32-14-9** M22759/18-14-9

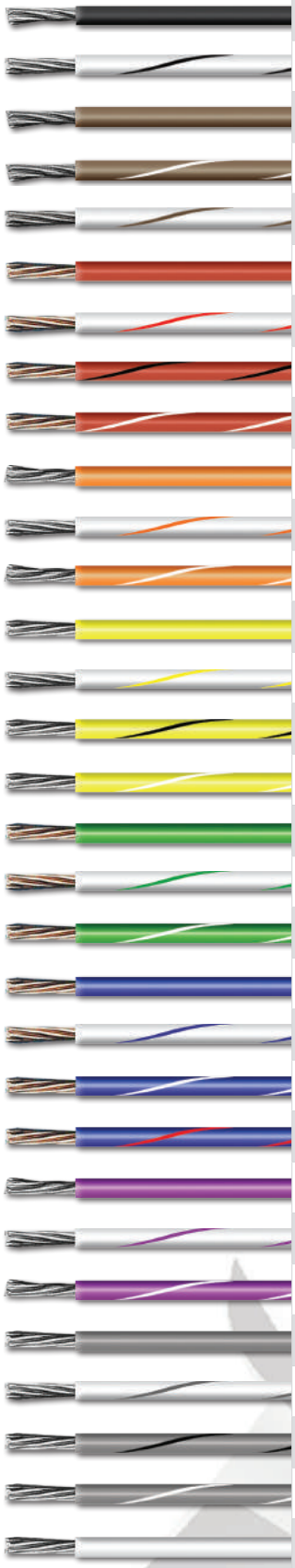


16AWG Wire (100' Spools)



Color	Part No.
M22759 Mil-Spec Wire	
Black	**M22759/32-16-0** M22759/18-16-0
White w/Black stripe	**M22759/32-16-90** M22759/18-16-90
Black w/White Stripe	**M22759/32-16-09** M22759/18-16-09
Brown	**M22759/32-16-1** M22759/18-16-1
Brown w/White Stripe	**M22759/32-16-19** M22759/18-16-19
White w/Brown stripe	**M22759/32-16-91** M22759/18-16-91
Red	**M22759/32-16-2** M22759/18-16-2
White w/Red stripe	**M22759/32-16-92** M22759/18-16-92
Red w/White Stripe	**M22759/32-16-24** M22759/18-16-24
Orange	**M22759/32-16-3** M22759/18-16-3
White w/Orange stripe	**M22759/32-16-93** M22759/18-16-93
Yellow	**M22759/32-16-4** M22759/18-16-4
White w/Yellow stripe	**M22759/32-16-94** M22759/18-16-94
Yellow w/White Stripe	**M22759/32-16-49** M22759/18-16-49
Green	**M22759/32-16-5** M22759/18-16-5
White w/Green Stripe	**M22759/32-16-95** M22759/18-16-95
Green w/White Stripe	**M22759/32-16-59** M22759/18-16-59
Blue	**M22759/32-16-6** M22759/18-16-6
White w/Blue Stripe	**M22759/32-16-96** M22759/18-16-96
Blue w/White Stripe	**M22759/32-16-69** M22759/18-16-69
Blue w/Red Stripe	**M22759/32-16-62** M22759/18-16-62
Violet	**M22759/32-16-7** M22759/18-16-7
White w/Violet Stripe	**M22759/32-16-97** M22759/18-16-97
Violet w/White Stripe	**M22759/32-16-79** M22759/18-16-79
Grey	**M22759/32-16-8** M22759/18-16-8
White w/Grey Stripe	**M22759/32-16-98** M22759/18-16-98
Grey w/White Stripe	**M22759/32-16-89** M22759/18-16-89
White	**M22759/32-16-9** M22759/18-16-9

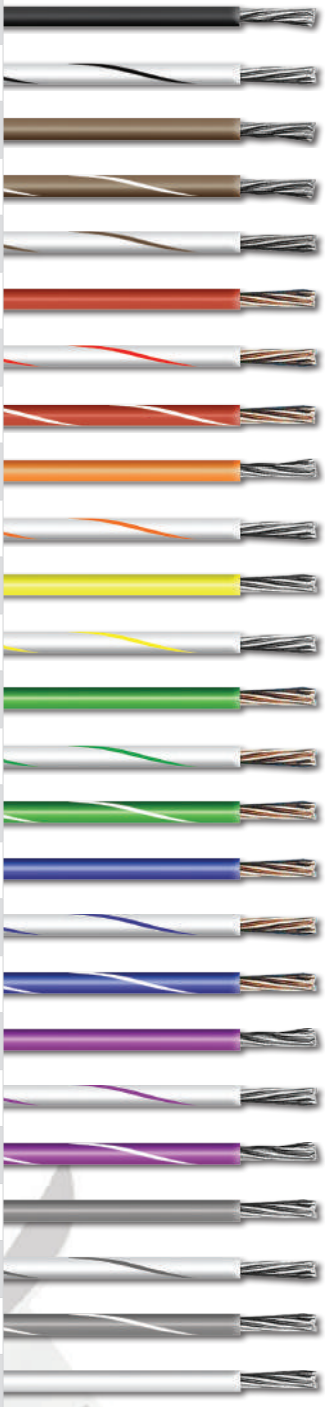
18AWG Wire (100' Spools)



Color	Part No.
M22759 Mil-Spec Wire	
Black	**M22759/32-18-0** M22759/18-18-0
White w/Black stripe	**M22759/32-18-90** M22759/18-18-90
Brown	**M22759/32-18-1** M22759/18-18-1
Brown w/White Stripe	**M22759/32-18-19** M22759/18-18-19
White w/Brown stripe	**M22759/32-18-91** M22759/18-18-91
Red	**M22759/32-18-2** M22759/18-18-2
White w/Red stripe	**M22759/32-18-92** M22759/18-18-92
Red w/Black Stripe	**M22759/32-18-20** M22759/18-18-20
Red w/White Stripe	**M22759/32-18-29** M22759/18-18-29
Orange	**M22759/32-18-3** M22759/18-18-3
White w/Orange stripe	**M22759/32-18-93** M22759/18-18-93
Orange w/White Stripe	**M22759/32-18-39** M22759/18-18-39
Yellow	**M22759/32-18-4** M22759/18-18-4
White w/Yellow stripe	**M22759/32-18-94** M22759/18-18-94
Yellow w/Black stripe	**M22759/32-18-40** M22759/18-18-40
Yellow w/White Stripe	**M22759/32-18-49** M22759/18-18-49
Green	**M22759/32-18-5** M22759/18-18-5
White w/Green Stripe	**M22759/32-18-95** M22759/18-18-95
Green w/White Stripe	**M22759/32-18-59** M22759/18-18-59
Blue	**M22759/32-18-6** M22759/18-18-6
White w/Blue Stripe	**M22759/32-18-96** M22759/18-18-96
Blue w/White Stripe	**M22759/32-18-69** M22759/18-18-69
Blue w/Red Stripe	**M22759/32-18-62** M22759/18-18-62
Violet	**M22759/32-18-7** M22759/18-18-7
White w/Violet Stripe	**M22759/32-18-97** M22759/18-18-97
Violet w/White Stripe	**M22759/32-18-79** M22759/18-18-79
Grey	**M22759/32-18-8** M22759/18-18-8
White w/Grey Stripe	**M22759/32-18-98** M22759/18-18-98
Grey w/Black Stripe	**M22759/32-18-80** M22759/18-18-80
Grey w/White Stripe	**M22759/32-18-89** M22759/18-18-89
White	**M22759/32-18-9** M22759/18-18-9

20AWG Wire (100' Spools)

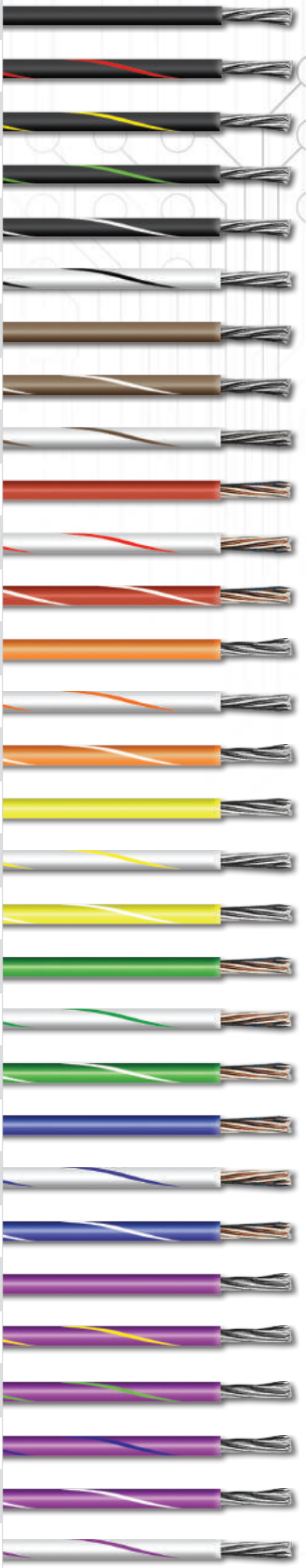
Color	Part No.
M22759 Mil-Spec Wire	
Black	**M22759/32-20-0** M22759/18-20-0
White w/Black stripe	**M22759/32-20-90** M22759/18-20-90
Brown	**M22759/32-20-1** M22759/18-20-1
Brown w/White Stripe	**M22759/32-20-19** M22759/18-20-19
White w/Brown stripe	M22759/32-20-91 M22759/18-20-91
Red	**M22759/32-20-2** M22759/18-20-2
White w/Red stripe	**M22759/32-20-92** M22759/18-20-92
Red w/White Stripe	**M22759/32-20-29** M22759/18-20-29
Orange	**M22759/32-20-3** M22759/18-20-3
White w/Orange stripe	**M22759/32-20-93** M22759/18-20-93
Yellow	**M22759/32-20-4** M22759/18-20-4
White w/Yellow stripe	**M22759/32-20-94** M22759/18-20-94
Green	**M22759/32-20-5** M22759/18-20-5
White w/Green Stripe	**M22759/32-20-95** M22759/18-20-95
Green w/White Stripe	**M22759/32-20-59** M22759/18-20-59
Blue	**M22759/32-20-6** M22759/18-20-6
White w/Blue Stripe	**M22759/32-20-96** M22759/18-20-96
Blue w/White Stripe	**M22759/32-20-69** M22759/18-20-69
Violet	**M22759/32-20-7** M22759/18-20-7
White w/Violet Stripe	**M22759/32-20-97** M22759/18-20-97
Violet w/White Stripe	**M22759/32-20-79** M22759/18-20-79
Grey	**M22759/32-20-8** M22759/18-20-8
White w/Grey Stripe	**M22759/32-20-98** M22759/18-20-98
Grey w/White Stripe	**M22759/32-20-89** M22759/18-20-89
White	**M22759/32-20-9** M22759/18-20-9



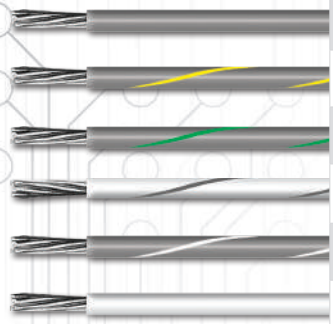
22AWG Wire (100' Spools)

Color	Part No.
M22759 Mil-Spec Wire	
Black	**M22759/32-22-0** M22759/18-22-0
Black w/Red Stripe	**M22759/32-22-02** M22759/18-22-02
Black w/Yellow Stripe	**M22759/32-22-04** M22759/18-22-04
Black w/Green Stripe	**M22759/32-22-05** M22759/18-22-05
Black w/White Stripe	**M22759/32-22-09** M22759/18-22-09
White w/Black stripe	**M22759/32-22-90** M22759/18-22-90
Brown	**M22759/32-22-1** M22759/18-22-1
Brown w/White Stripe	**M22759/32-22-19** M22759/18-22-19
White w/Brown stripe	**M22759/32-22-91** M22759/18-22-91
Red	**M22759/32-22-2** M22759/18-22-2
White w/Red stripe	**M22759/32-22-92** M22759/18-22-92
Red w/White Stripe	**M22759/32-22-29** M22759/18-22-29
Orange	**M22759/32-22-3** M22759/18-22-3
White w/Orange stripe	**M22759/32-22-93** M22759/18-22-93
Orange w/White Stripe	**M22759/32-22-39** M22759/18-22-39
Yellow	**M22759/32-22-4** M22759/18-22-4
White w/Yellow stripe	**M22759/32-22-94** M22759/18-22-94
Yellow w/White Stripe	**M22759/32-22-49** M22759/18-22-49
Green	**M22759/32-22-5** M22759/18-22-5
White w/Green Stripe	**M22759/32-22-95** M22759/18-22-95
Green w/White Stripe	**M22759/32-22-59** M22759/18-22-59
Blue	**M22759/32-22-6** M22759/18-22-6
White w/Blue Stripe	**M22759/32-22-96** M22759/18-22-96
Blue w/White Stripe	**M22759/32-22-69** M22759/18-22-69
Violet	**M22759/32-22-7** M22759/18-22-7
Violet w/Yellow Stripe	**M22759/32-22-74** M22759/18-22-74
Violet w/Green Stripe	**M22759/32-22-75** M22759/18-22-75
Violet w/Blue Stripe	**M22759/32-22-76** M22759/18-22-76
Violet w/White Stripe	**M22759/32-22-79** M22759/18-22-79
White w/Violet Stripe	**M22759/32-22-97** M22759/18-22-97

Continued on next page.



22AWG Wire (100' Spools)



Color	Part No.
M22759 Mil-Spec Wire	
Grey	**M22759/32-22-8** M22759/18-22-8
Grey w/Yellow Stripe	**M22759/32-22-84** M22759/18-22-84
Grey w/Green Stripe	**M22759/32-22-85** M22759/18-22-85
White w/Grey Stripe	**M22759/32-22-98** M22759/18-22-98
Grey w/White Stripe	**M22759/32-22-89** M22759/18-22-89
White	**M22759/32-22-9** M22759/18-22-9

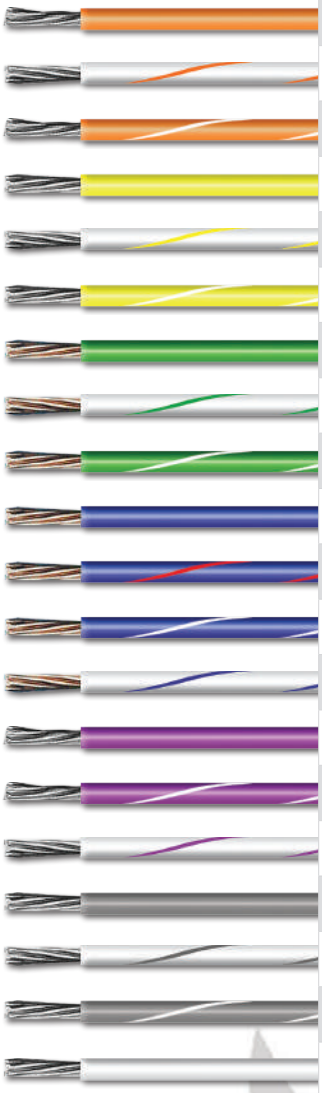
24AWG Wire (100' Spools)



Color	Part No.
M22759 Mil-Spec Wire	
Black	**M22759/32-24-0** M22759/18-24-0
Black w/Brown Stripe	**M22759/32-24-01** M22759/18-24-01
Black w/Red Stripe	**M22759/32-24-02** M22759/18-24-02
Black w/Yellow Stripe	**M22759/32-24-04** M22759/18-24-04
Black w/Blue Stripe	**M22759/32-24-06** M22759/18-24-06
Black w/White Stripe	**M22759/32-24-09** M22759/18-24-09
White w/Black stripe	**M22759/32-24-90** M22759/18-24-09
Brown	**M22759/32-24-1** M22759/18-24-1
Brown w/White Stripe	**M22759/32-24-19** M22759/18-24-19
White w/Brown Stripe	**M22759/32-24-91** M22759/18-24-91
Red	**M22759/32-24-2** M22759/18-24-2
Red w/Black Stripe	**M22759/32-24-20** M22759/18-24-20
Red w/Brown Stripe	**M22759/32-24-21** M22759/18-24-21
Red w/Yellow Stripe	**M22759/32-24-24** M22759/18-24-24
Red w/Green Stripe	**M22759/32-24-25** M22759/18-24-25
Red w/Blue Stripe	**M22759/32-24-26** M22759/18-24-26
Red w/White Stripe	**M22759/32-24-29** M22759/18-24-29
White w/Red Stripe	**M22759/32-24-92** M22759/18-24-92

Continued top right.

24AWG Wire (100' Spools)



Color	Part No.
M22759 Mil-Spec Wire	
Orange	**M22759/32-24-3** M22759/18-24-3
White w/Orange Stripe	**M22759/32-24-93** M22759/18-24-93
Orange w/White Stripe	**M22759/32-24-39** M22759/18-24-39
Yellow	**M22759/32-24-4** M22759/18-24-4
White w/Yellow Stripe	**M22759/32-24-94** M22759/18-24-94
Yellow w/White Stripe	**M22759/32-24-49** M22759/18-24-49
Green	**M22759/32-24-5** M22759/18-24-5
White w/Green Stripe	**M22759/32-24-95** M22759/18-24-95
Green w/White Stripe	**M22759/32-24-59** M22759/18-24-59
Blue	**M22759/32-24-6** M22759/18-24-6
Blue w/Red Stripe	**M22759/32-24-62** M22759/18-24-62
Blue w/White Stripe	**M22759/32-24-69** M22759/18-24-69
White w/Blue Stripe	**M22759/32-24-96** M22759/18-24-96
Violet	**M22759/32-24-7** M22759/18-24-7
Violet w/White Stripe	**M22759/32-24-79** M22759/18-24-79
White w/Violet Stripe	**M22759/32-24-97** M22759/18-24-97
Grey	**M22759/32-24-8** M22759/18-24-8
White w/Grey Stripe	**M22759/32-24-98** M22759/18-24-98
Grey w/White Stripe	**M22759/32-24-89** M22759/18-24-89
White	**M22759/32-24-9** M22759/18-24-9

26AWG Wire (100' Spools)

Color	Part No.
M22759 Mil-Spec Wire	
Black	**M22759/32-26-0** M22759/18-26-0
White w/Black Stripe	**M22759/32-26-09** M22759/18-26-09
Brown	**M22759/32-26-1** M22759/18-26-1
Red	**M22759/32-26-2** M22759/18-26-2
Orange	**M22759/32-26-3** M22759/18-26-3
Yellow	**M22759/32-26-4** M22759/18-26-4
Green	**M22759/32-26-5** M22759/18-26-5
Blue	**M22759/32-26-6** M22759/18-26-6
Violet	**M22759/32-26-7** M22759/18-26-7
Grey	**M22759/32-26-8** M22759/18-26-8
White	**M22759/32-26-9** M22759/18-26-9



28AWG Wire (100' Spools)

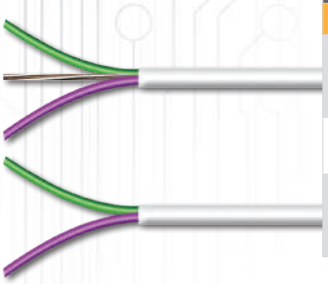
Color	Part No.
M22759 Mil-Spec Wire	
Black	**M22759/32-28-0** M22759/18-28-0
Red	**M22759/32-28-2** M22759/18-28-2
Green	**M22759/32-28-5** M22759/18-28-5
Blue	**M22759/32-28-6** M22759/18-28-6
White	**M22759/32-28-9** M22759/18-28-9



M27500 Twisted Shielded Wire

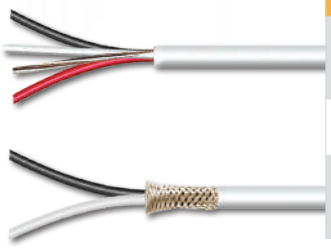
M27500 wire is shielded and jacketed, twisted pair cable. M27500 specification is commonly used in avionics, aerospace and airframe applications but also works well in motorsport applications that require twisted/shielded wire. WIRED stocks several types of commonly used multi-conductor shielded M27500 spec tables.

WIRED Stocks several types of commonly used multi-conductor shielded M27500 spec cables.



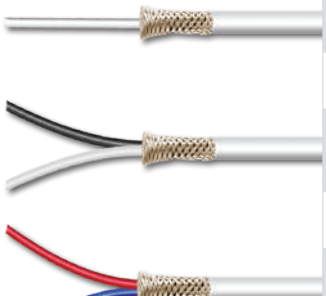
18AWG Wire (Per Foot)

Color	Part No.
M27500 Twisted Shielded Wire	
Green, Violet w/White Jacket Foil Shield w/Drain Wire	**18TE2T14-5/7-9**
Green, Violet w/White Jacket Braided Shield	**18TG214-5/7-9**



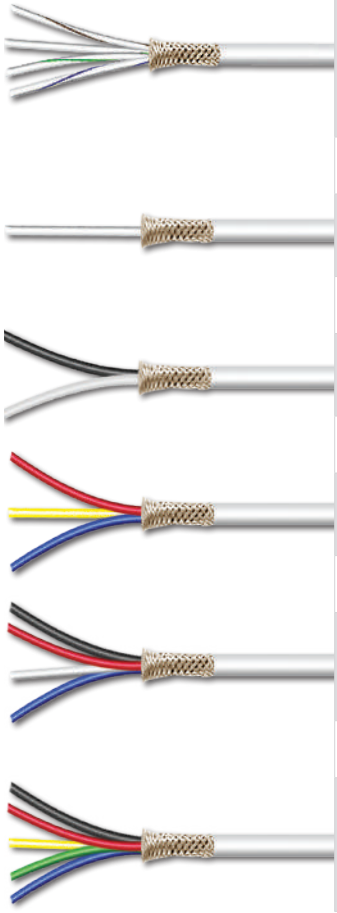
20AWG Wire (Per Foot)

Color	Part No.
M27500 Twisted Shielded Wire	
Black, White, Red w/White Jacket Foil Shield w/Drain Wire	**20TE3AM14-2-0-9**
Black and White w/White Jacket Braided Shield	**55A1121-20-0/9-9**



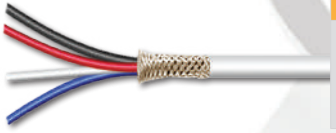
22AWG Wire (Per Foot)

Color	Part No.
M27500 Twisted Shielded Wire	
White Braided Shield	**55A1111-22-9-9**
Black and White w/ White Jacket Braided Shield	**55A1121-22-0/9-9**
Red and Blue w/ White Jacket Braided Shield	**55A1121-22-2/6-9**
Red, Yellow and Blue w/White Jacket Braided Shield	**55A1121-24-0/9-9**



24AWG Wire (Per Foot)

Color	Part No.
M27500 Twisted Shielded Wire	
White, White w/ Brown Stripe, White w/Green Stripe White w/Blue Stripe w/white Jacket / Braided Shield	**24TG4T14-001**
White Braided Shield	**55A1111-24-9-9**
Black and White w/White Jacket / Braided Shield	**55A1121-24-0/9-9**
Red, Yellow and Blue w/White Jacket / Braided Shield	**55A1131-24-2/4/6-9**
Black, Red, White and Blue w/White Jacket / Braided Shield	**55A1141-24-0/2/6/9-9**
Black, Red, Yellow, Green, Blue w/White Jacket / Braided Shield	**55A1151-24-0/2/4/5/6-9**



26AWG Wire (Per Foot)

Color	Part No.
M27500 Twisted Shielded Wire	
Black, Red, White and Blue w/White Jacket / Braided Shield	**55A1141-26-0/2/6/9-9**

Heavy Gauge Wire

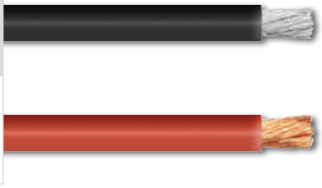
Heavy gauge wire types work well for high current applications such as battery cables, starters and alternators.

Silicone Cable Description: Silicone Insulated Hook Up Wire is recommended for high temperature applications. Excellent flexibility tinned copper strands with a Besilen EI2 insulation offers a great option for alternator and/or starter leads. Operating temperatures range from-40°C to +180°C (-40°F to +356°F) with flame retardant and self-extinguishing compatibilities.

Welding Cable Description:
Highly flexible annealed 30 gauge bare copper conductor, insulated with an EPDM jacket and paper separator. Operating temperatures range from-50°C to +105°C (-58°F to +221°F) and rated to 600 volts. The insulation offers good resistance to heat aging and is resistant to sunlight, oil and grease making it a good option for battery hook up or starter cable for your high performance racing application.

0/1AWG Wire (Per Foot)

Color	Part No.
Heavy Gauge	
Black (Welding Cable)	**5711/0-05**
Red (Welding Cable)	**5711/0-01**



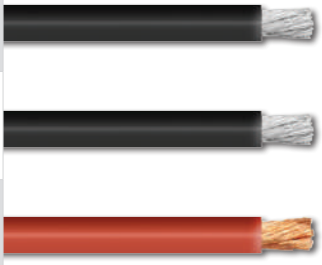
0/4AWG Wire (Per Foot)

Color	Part No.
Heavy Gauge	
Black (Silicone Cable)	**SC113-4-0**
Black (Welding Cable)	**57141-05**
Red (Welding Cable)	**57141-01**



0/2AWG Wire (Per Foot)

Color	Part No.
Heavy Gauge	
Black (Silicone Cable)	**SC113-2-0**
Black (Welding Cable)	**57121-05**
Red (Welding Cable)	**57121-01**



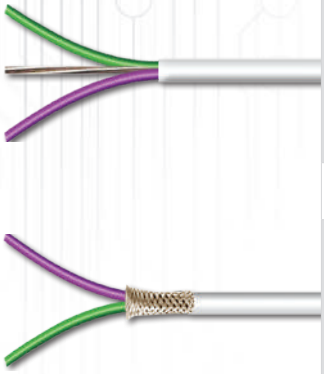
0/6AWG Wire (Per Foot)

Color	Part No.
Heavy Gauge	
Black (Welding Cable)	**57161-05**
Red (Welding Cable)	**57161-01**



Specialty Wire

The following WIRED part numbers, listed on this page, are useful for building ignition wire harnesses that conform to NASCAR's current rules for ignition wiring. These standard wire types are optimized for size, color and are striped to quickly identify "A" side ignition wires from "B" side ignition wires. The descriptions are commonly used terms for certain ignition wiring functions. If you have a question about your specific wire harness, please call WIRED for assistance.



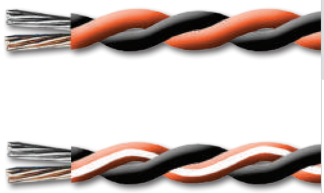
Specialty Wire (Per Foot)

Color	Part No.
Distributor Pick-Up Wire	
Green, Violet, Twisted/Shielded Pair / Foil Shield w/Drain Wire Mil-Spec Shielded Wire w/Correct Colors	**18TE2T14-5/7-9**
Green, Violet, Twisted/Shielded Pair / Braided Shield Mil-Spec Shielded Wire w/Correct Colors	**18TG2T14-5/7-9**



Specialty Wire (Per Foot)

Color	Part No.
Ignition "On"Wire	
Red Optimum Size and Correct Color	**M22759/18-18-2**
Red w/White Stripe Optimum Size and Correct Color	**M22759/18-18-29**



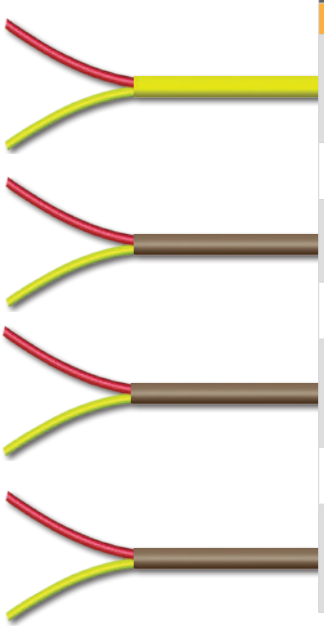
Specialty Wire (Per Foot)

Color	Part No.
Twisted Coil Wire	
Orange, Black Pre-Twisted and Optimum Size and Correct Color	**Mil-18-16-3/0 TP**
Ignition "On" Wire Orange, Black w/ White Stripe Pre-Twisted w/ Stripe to Indicate B Side	**Mil-18-16-39/09 TP**



Specialty Wire (Per Foot)

Color	Part No.
Tachometer Wire	
Brown Optimum Size and Correct Color	**M22759/18-18-1**
Brown w/White Stripe Optimum Size and Correct Color w/Stripe to Indicate B Side	**M22759/18-18-19**



Specialty Wire (Per Foot)

Color	Part No.
Thermocouple Wire	
20GA Stranded Red, Yellow w/ Yellow Jacket K-Type	**EXPP-K-20S-100**
20GA Red, Yellow w/Brown Jacket K-Type	**TT-K--20-200**
24GA Red, Yellow w/ Brown Jacket K-Type	**TT- K-24-200**
24 GA Stranded Red, Yellow w/ Brown Jacket K-Type	**TT-K-24S-200**

Heat-Shrinkable, Chemical-Resistant, High-Temperature Tubing

RW-200-E (Viton)

Applications: Raychem premium heatshrinkable tubing is fabricated from Viton® fluoroelastomers – a crosslinked material designed for a wide range of applications. It is available in two configurations. RW-200-E is the thickest wall version. RW-200 has the thinnest wall for lighter weight applications. Offering fluid resistance, RW-200 tubing can be used in applications up to 200°C [392°F].

Installation: Minimum shrink temperature: 100°C [212°F]. Minimum full recovery temperature: 175°C [347°F].

Operating Temperature Range: RW-200:-40°C* to 200°C [-40°F to 392°F] RW-200-E:-55°C to 200°C [-67°F to 392°F].

RoHS Compliant.

Resistance to a Wide Variety of Fuels, Lubricants, Acids, and Solvents at Elevated Temperatures.



Flexibility at Low Temperatures Without Cracking.

Flexibility at Low Temperatures Without Cracking.

Series	Military	Raychem
RW-200-E	Def. Stan. 59-97 Issue 3 Type 4A VG 95343 Part 5 Type E VDE 0341/Pt9005 BS 4G-198 Part 3 12A	**RW-3037**

Formerly MIL-I-23053/13 and MIL-DTL-23053/13.

Product Dimensions				
	Inside Diameter		Recovered Wall Thickness** After Heating (Nominal)	
Size	Min. Expanded as Supplied	Max. Recovered After Heating	RW-200-E	RW-200
1/8"	3.2 [0.125]	1.6 [0.062]	0.76 [0.030]	0.76 [0.030]
3/16"	4.8 [0.187]	2.4 [0.093]	0.84 [0.033]	0.89 [0.035]
1/4"	6.4 [0.250]	3.2 [0.125]	0.89 [0.035]	0.89 [0.035]
3/8"	9.5 [0.375]	4.8 [0.187]	1.02 [0.040]	0.89 [0.035]
1/2"	12.7 [0.500]	6.4 [0.250]	1.22 [0.048]	0.89 [0.035]
5/8"	15.9 [0.625]	7.9 [0.312]	--	1.07 [0.042]
3/4"	19.1 [0.750]	9.5 [0.375]	1.45 [0.057]	1.07 [0.042]
7/8"	22.2 [0.875]	11.1 [0.437]	--	1.25 [0.049]
1"	25.4 [1.000]	12.7 [0.500]	1.78 [0.070]	1.25 [0.049]
1-1/2"	31.8 [1.250]	15.9 [0.625]	--	1.40 [0.055]
1-1/2"	38.1 [1.500]	19.1 [0.750]	2.41 [0.095]	1.40 [0.055]
2"	50.8 [2.000]	25.4 [1.000]	2.79 [0.110]	1.65 [0.065]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

RW-200-E (Per Foot)

Size/Color	Part No.
Heat Shrink Tubing	
1/8 inch / Black	**HS-RW-2-0**
3/16 inch / Black	**HS-RW-3-0**
1/4 inch / Black	**HS-RW-4-0**
3/8 inch / Black	**HS-RW-6-0**
1/2 inch / Black	**HS-RW-8-0**
3/4 inch / Black	**HS-RW-12-0**



Heat-Shrinkable, Flexible, Chemical and Abrasion Resistant Tubing

DR-25

Applications: Specially formulated for optimum high temperature fluid resistance, and long term heat resistance. Resistant to aviation and diesel fuels, hydraulic fluids and lubricating oils. Particularly suitable as a jacketing material for military ground vehicle cables and harnesses. It is also ideally suited for the demands of motorsport cable harnesses. When used in conjunction with System 25 heat-shrinkable molded shapes and S1125 high performance adhesive, these products provide a complete cable harness system.

Installation: Minimum shrink temperature: 150°C [302°F] Minimum full recovery temperature: 175°C [347°F].

Operating Temperature Range: -75°C to 150°C [-103°F to 302°F] (per VG 95343 Part 5 Type D).



DR-25 (Per Foot)

	Size/Color	Part No.
	Heat Shrink Tubing	
Raychem 3/32 DR-25	3/32 inch / Black	**HS-DR25-3/32-0**
Raychem 1/8 DR-25	1/8 inch / Black	**HS-DR25-2-0**
Raychem 3/16 DR-25	3/16 inch / Black	**HS-DR25-3-0**
Raychem 1/4 DR-25	1/4 inch / Black	**HS-DR25-4-0**
Raychem 3/8 DR-25	3/8 inch / Black	**HS-DR25-6-0**
Raychem 1/2 DR-25	1/2 inch / Black	**HS-DR25-8-0**
Raychem 3/4 DR-25	3/4 inch / Black	**HS-DR25-12-0**
Raychem 1 DR-25	1.0 inch / Black	**HS-DR25-16-0**
Raychem 1-1/2 DR-	1-1/2 inch / Black	**HS-DR25-24-0**

Series	Military	Raychem
DR-25	AMS-DTL-23053/16* VG95343 Part 5 Type D VDE 0341/Pt 9005 Def Stan 59-97 Issue 3 Type 6B BS 4G-198 Part 3 10A	RT-1116 RK-6008/1

*Formerly MIL-I-23053/16 and MIL-DTL-23053/16.

Product Dimensions			
	Inside Diameter		
Size	Min. Expanded as Supplied	Max. Recovered After Heating	Recovered Wall Thickness** After Heating (Nominal)
1/8"	3.2 [0.125]	1.6 [0.062]	0.76 ± 0.15 [0.030 ± 0.006]
3/16"	4.8 [0.187]	2.4 [0.093]	0.84 ± 0.15 [0.033 ± 0.006]
1/4"	6.4 [0.250]	3.2 [0.125]	0.89 ± 0.15 [0.035 ± 0.006]
3/8"	9.5 [0.375]	4.8 [0.187]	1.02 ± 0.20 [0.040 ± 0.008]
1/2"	12.7 [0.500]	6.4 [0.250]	1.22 ± 0.20 [0.048 ± 0.008]
3/4"	19.0 [0.748]	9.5 [0.375]	1.45 ± 0.28 [0.057 ± 0.011]
1"	25.4 [1.000]	12.7 [0.500]	1.78 ± 0.28 [0.070 ± 0.011]
1-1/2"	38.0 [1.500]	19.0 [0.748]	2.41 ± 0.41 [0.095 ± 0.016]
2.0"	51.0 [2.000]	25.4 [1.000]	2.79 ± 0.41 [0.110 ± 0.016]
3"	76.0 [3.000]	38.0 [1.500]	3.18 ± 0.50 [0.125 ± 0.020]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Heat-Shrinkable, Flexible, Thin Wall, Chemical Resistant Tubing

DR-25-TW

Applications: DR-25-TW is a flexible, fluid resistant elastomeric tubing. Developed from DR-25, this thin wall version is ideal for use where space and weight saving are important. It also offers excellent resistance to fluids at high temperature and to long-term heat exposure. It is fast to install and may be used with other products from the Raychem System 25 range for compact and tough harnessing systems. The product is printed with the product description and size.

Installation: Minimum full recovery temperature: +175°C [347°F]. Shrink ratio 2:1.

Operating Temperature Range: -75°C to +150°C.

Excellent Resistance to Fluids at High Temperature and to Long-Term Heat Exposure.

Flame Retardant.



Flexible, Fluid Resistant Elastomeric Tubing.

Ideal for use where space and weight saving are important.

Performance	
Heat Aging:	168 h at 160°C to ISO 188 20,000 h at 120°C to IEC 216
Flexibility (2% Secant Modulus):	50 Mpa (max) to ASTM D882
Dielectric Strength:	8 MV/m (min) to IEC 243
Flammability:	ASTM D876 15s (max.)
Fluid Resistance:	As DR25
Tensile Strength:	10 MPa (min.)
Ultimate Elongation:	200% (min.)
For full product performance details consult Raychem Specification RK 6008/2.	

Product Dimensions				
Inside Diameter		Wall Thickness	Standard Package	
D (min.) Expanded as Supplied	D (max.) Recovered After Heating	W (nom.) Recovered After Heating	Spool Quantity	Weight
mm	mm	mm	mm	g/m
2.4	1.2	0.51	150	4
3.2	1.6	0.51	150	4
4.8	2.4	0.51	150	6
6.4	3.2	0.64	75	10
9.5	4.8	0.64	75	15
12.7	6.4	0.64	75	20
19.0	9.5	0.76	75	35
25.4	12.7	0.89	30	54
31.5	15.0	1.10	30	67
38.0	19.0	1.02	30	92
The largest size which will recover snugly over the component to be covered should be ordered.				
The wall thickness of the tubing will be less than specified if recovery is restricted during shrinkage.				

DR-25-TW (Per Foot)

Size/Color	Part No.
Heat Shrink Tubing	
3/32 inch / Black	**HS-DR25-TW-3/32**
1/8 inch / Black	**HS-DR25-TW-2-0**
3/16 inch / Black	**HS-DR25-TW-3-0**
1/4 inch / Black	**HS-DR25-TW-4-0**
3/8 inch / Black	**HS-DR25-TW-6-0**
1/2 inch / Black	**HS-DR25-TW-8-0**
3/4 inch / Black	**HS-DR25-TW-12-0**
1.0 inch / Black	**HS-DR25-16-0**
1-1/2 inch / Black	**HS-DR25-TW-24-0**



Flexible, High-Shrink-Ratio, Flame-Retardant, General Purpose, Polyolefin Tubing

RNF-3000

Applications: Used for insulation and strain relief of wire terminations and electrical connections. Also suitable for light-duty harnessing, jacketing, and identification of wires, cables, and electrical and electronic components.

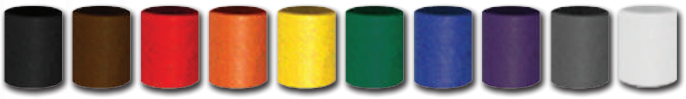
Installation: Minimum shrink temperature: 80°C [176°F]. Minimum full recovery temperature: 120°C [248°F].

Operating Temperature Range: -55°C to 135°C [-67°F to 275°F].

Colors: Sold Per 4mm Pcs

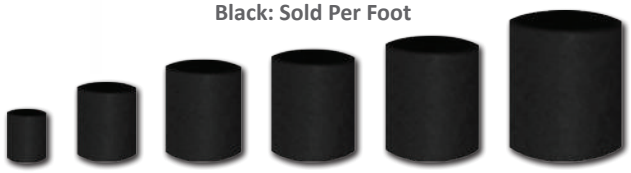


1/16"



1/8"

Black: Sold Per Foot



1/16" 1/8" 1/4" 3/8" 3/4" 1-1/2"

- Excellent Physical, Chemical, and Electrical Properties Meet Industry Standards for Highly Reliable, General Purpose Tubing
- 3:1 Shrink Ratio Easily Accommodates Awkward, Irregular Shapes
- Flame Retardant (Colors Only)
- RoHS Compliant

RNF-3000 (Per Bags of 1,000)



Size/Color	Part No.
Heat Shrink Tubing	
4mm Pcs / 1/16" Black	HS-RNF-1-0-4mm
4mm Pcs / 1/16" Brown	HS-RNF-1-1-4mm
4mm Pcs / 1/16" Red	HS-RNF-1-2-4mm
4mm Pcs / 1/16" Orange	HS-RNF-1-3-4mm
4mm Pcs / 1/16" Yellow	HS-RNF-1-4-4mm
4mm Pcs / 1/16" Green	HS-RNF-1-5-4mm
4mm Pcs / 1/16" Blue	HS-RNF-1-6-4mm
4mm Pcs / 1/16" Violet	HS-RNF-1-7-4mm
4mm Pcs / 1/16" Grey	HS-RNF-1-8-4mm
4mm Pcs / 1/16" White	HS-RNF-1-9-4mm

Continued on next page.

Specifications / Approvals							
Series	UL		CSA		Military	Industry	Raychem
RNF-3000	E35586600 V, 125°C		LR31929 600 V, 125°C		Def. Stan. 59-97 Type 2B VG 95343 Pt 5 Type A (color) VG 95343 Pt 5 Type B (clear)	VDE 0341 Pt 9005 Type A and B	RW-2053

Product Dimensions			
	Inside Diameter		
Size	Min. Expanded as Supplied	Max. Recovered After Heating	Recovered Wall Thickness* After Heating
1.5/0.5	1.5 [0.060]	0.5 [0.019]	0.45 ± 0.10 [0.018 ± 0.003]
3/1	3 [0.118]	1 [0.039]	0.55 ± 0.10 [0.022 ± 0.003]
4.5/1.5	4.5 [0.177]	1.5 [0.059]	0.55 ± 0.10 [0.022 ± 0.003]
6/2	6 [0.236]	2 [0.079]	0.65 ± 0.10 [0.026 ± 0.003]
9/3	9 [0.354]	3 [0.118]	0.75 ± 0.12 [0.030 ± 0.004]
12/4	12 [0.472]	4 [0.157]	0.75 ± 0.12 [0.030 ± 0.004]
18/6	18 [0.709]	6 [0.236]	0.85 ± 0.12 [0.033 ± 0.004]
24/8	24 [0.944]	8 [0.315]	1.00 ± 0.18 [0.039 ± 0.007]
39/13	39 [1.534]	13 [0.512]	1.15 ± 0.20 [0.045 ± 0.008]

*Wall thickness will be less if tubing recovery is restricted during shrinkage.

RNF-3000 (Per Bags of 1,000)

Size/Color	Part No.
Heat Shrink Tubing	
4mm Pcs / 1/8" Black	**HS-RNF-2-0-4mm**
4mm Pcs / 1/8" Brown	**HS-RNF-2-1-4mm**
4mm Pcs / 1/8" Red	**HS-RNF-2-2-4mm**
4mm Pcs / 1/8" Orange	**HS-RNF-2-3-4mm**
4mm Pcs / 1/8" Yellow	**HS-RNF-2-4-4mm**
4mm Pcs / 1/8" Green	**HS-RNF-2-5-4mm**
4mm Pcs / 1/8" Blue	**HS-RNF-2-6-4mm**
4mm Pcs / 1/8" Violet	**HS-RNF-2-7-4mm**
4mm Pcs / 1/8" Grey	**HS-RNF-2-8-4mm**
4mm Pcs / 1/8" White	**HS-RNF-2-9-4mm**



RNF-3000 (Per Foot/Sized to Fit)

Size/Color	Part No.
Heat Shrink Tubing	
1/16 inch / Black	**HS-RNF3000-1-0**
1/8 inch / Black	**HS-RNF3000-2-0**
1/4 inch / Black	**HS-RNF3000-4-0**
3/8 inch / Black	**HS-RNF3000-6-0**
3/4 inch / Black	**HS-RNF3000-12-0**
1-1/2 inch / Black	**HS-RNF3000-24-0**



High-Shrink-Ratio, Flame-Retardant, Polyolefin Tubing

RP-4800

Applications: Well-suited for repairing harnesses or cables; will pass over a large-diameter connector or transition, and then shrink down onto a smaller-diameter jacket. Can insulate or protect a substrate of varying dimensions. Also provides the abrasion and fluid resistance required in harnessing applications.

Installation: Minimum Shrink Temperature: 95°C [203°F] Minimum full recovery temperature: 121°C [250°F].

Operating Temperature Range: -55°C to 135°C [-67°F to 275°F].

RoHS

Flame Retardant & RoHS Compliant

Shows No Significant Degradation When Exposed to Common Solvents and Chemicals, Including Aviation Fuel and Hydraulic Fluid.



Conforms Well to Highly Variable Substrate Dimensions. 4:1 Shrink Ratio.

Has Excellent Physical, Chemical, and Electrical Properties that Meet or Exceed Industrial and Military standards.

Specifications / Approvals				
Series	UL	Military	Industry	Raychem
RP-4800	E35586 600V, 125°C (black only)	AMS-DTL-23053/5*, Class 1 Over expanded VG 95343 Pt 5 Type A	VDE 0341 Pt 9005 Type A	RT-1122

RP-4800 (Per Stick - 4")

Size/Color	Part No.
Heat Shrink Tubing	
4:1 Polyolefin 4.0' Stick / 3/4" / Black	**HS-RP-4800-12**
4:1 Polyolefin 4.0' Stick / 1.0" / Black	**HS-RP-4800-16**
4:1 Polyolefin 4.0' Stick / 1-1/2" / Black	**HS-RP-4800-24**
4:1 Polyolefin 4.0' Stick / 4.0" / Black	**HS-RP-4800-64**

Product Dimensions			
	Inside Diameter		
Size	Min. Expanded as Supplied	Max. Recovered After Heating	Recovered Wall Thickness** After Heating (Nominal)
No. 01	25.4 [1.000]	7.0 [0.275]	1.14 ± 0.18 [0.045 ± 0.007]
No. 02	50.8 [2.000]	14.0 [0.550]	1.14 ± 0.18 [0.045 ± 0.007]
No. 03	76.2 [3.000]	20.6 [0.810]	1.14 ± 0.18 [0.045 ± 0.007]
No. 04	101.6 [4.000]	26.7 [1.050]	1.14 ± 0.18 [0.045 ± 0.007]
No. 05	25.4 [1.000]	11.7 [0.462]	1.14 ± 0.18 [0.045 ± 0.007]
No. 06	60.3 [2.375]	17.3 [0.680]	1.14 ± 0.18 [0.045 ± 0.007]
No. 07	76.2 [3.000]	21.3 [0.840]	1.14 ± 0.18 [0.045 ± 0.007]
No. 08	95.3 [3.750]	23.6 [0.930]	1.14 ± 0.18 [0.045 ± 0.007]
No. 09	114.3 [4.500]	36.8 [1.450]	1.14 ± 0.18 [0.045 ± 0.007]
No. 10	38.1 [1.500]	9.5 [0.375	1.14 ± 0.18 [0.045 ± 0.007]
No. 11	19.1 [0.750]	4.6 [0.180]	1.14 ± 0.18 [0.045 ± 0.007]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Highly Flame-Retardant, Very Flexible, Low-Shrink-Temperature, Polyolefin Tubing

VERSAFIT

Applications: Cost-effective choice for many commercial and military applications; electrically insulates and protects in-line components, disconnect terminals, and splices. Bundles wires for very flexible light-duty harnesses. Strain-relieves electrical wire connections for commercial applications. Identifies or color-codes wires, cables, terminals, and components.

Installation: Minimum shrink temperature: 70°C [158°F]. Minimum full recovery temperature: 90°C [194°F].

Operating Temperature Range: -55°C to 135°C [-67°F to 275°F].

Free of Polybrominated Biphenyls (PBBs) and Polybrominated Biphenyl Oxides and Ethers (PBBOs and PBBEs), Which are Classified as Environmentally Hazardous Substances.

Hot Stamps Extremely Well. Highly Flame Retardant.



Low Shrink Temperature Reduces Installation Time and the Risk of Damage to Temperature-Sensitive Components. 2:1 Shrink Ratio

Very Flexible and Doesn't Easily Wrinkle When Bent.

Specifications / Approvals						
Series	UL		CSA		Military	Raychem
Versafit	E35586600 V, 125°C		LR31929 VW-1 600 V, 125°C		AMS-DTL-23053/5* Classes 1 & 3	RW-3009

*Formerly MIL-I-23053/5 and MIL-DTL-23053/5.

Product Dimensions			
	Inside Diameter		
Size	Min. Expanded as Supplied	Max. Recovered After Heating	Recovered Wall Thickness* After Heating
3/64"	1.63 ± 0.2 [0.064 ± 0.008]	0.6 [0.023]	0.40 ± 0.08 [0.016 ± 0.003]
1/16"	1.85 ± 0.2 [0.073 ± 0.008]	0.8 [0.031]	0.43 ± 0.08 [0.017 ± 0.003]
3/32"	2.79 ± 0.2 [0.110 ± 0.008]	1.2 [0.046]	0.51 ± 0.08 [0.020 ± 0.003]
1/8"	3.43 ± 0.2 [0.135 ± 0.008]	1.6 [0.062]	0.51 ± 0.08 [0.020 ± 0.003]
3/16"	5.21 ± 0.3 [0.205 ± 0.010]	2.4 [0.093]	0.51 ± 0.08 [0.020 ± 0.003]
1/4"	7.11 ± 0.3 [0.280 ± 0.010]	3.2 [0.125]	0.64 ± 0.08 [0.025 ± 0.003]
3/8"	10.16 ± 0.4 [0.400 ± 0.015]	4.8 [0.187]	0.64 ± 0.08 [0.025 ± 0.003]
1/2"	13.72 ± 0.4 [0.540 ± 0.015]	6.4 [0.250]	0.64 ± 0.08 [0.025 ± 0.003]
5/8"***	16.90 ± 0.4 [0.665 ± 0.015]	8.0 [0.315]	0.76 ± 0.08 [0.030 ± 0.003]
3/4"	20.45 ± 0.4 [0.805 ± 0.015]	9.5 [0.375]	0.76 ± 0.08 [0.030 ± 0.003]
1"	25.53 ± 0.4 [1.055 ± 0.015]	12.7 [0.500]	0.89 ± 0.12 [0.035 ± 0.005]
1-1/4***	33.40 ± 0.7 [1.315 ± 0.025]	15.9 [0.625]	1.02 ± 0.15 [0.040 ± 0.006]
1-1/2"	39.88 ± 0.8 [1.570 ± 0.030]	19.1 [0.750]	1.02 ± 0.15 [0.040 ± 0.006]
2"	52.83 ± 1.0 [2.080 ± 0.040]	25.4 [1.000]	1.14 ± 0.16 [0.045 ± 0.007]
3"	78.49 ± 1.0 [3.090 ± 0.040]	38.1 [1.500]	1.27 ± 0.20 [0.050 ± 0.008]
4"	104.14 ± 1.3 [4.100 ± 0.050]	50.8 [2.000]	1.40 ± 0.23 [0.055 ± 0.009]

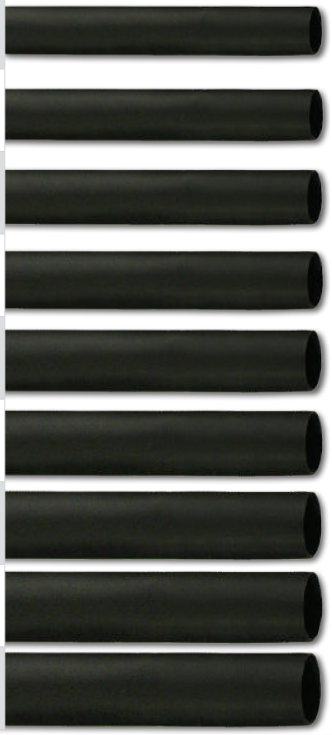
**Wall thickness will be less if tubing recovery is restricted during shrinkage.

***Non-standard size; available by special order only.

NOTE: *Please contact us to inquire about additional colors for VERASFIT.*

VERSAFIT (1,000 Foot Roll)

Size/Color	Part No.
Heat Shrink Tubing	
1/16 inch / Black	**HS-V-1-0**
1/8 inch / Black	**HS-V-2-0**
3/16 inch / Black	**HS-V-3-0**
1/4 inch / Black	**HS-V-4-0**
3/8 inch / Black	**HS-V-6-0**
1/2 inch / Black	**HS-V-8-0**
3/4 inch / Black	**HS-V-12-0**
1 inch / Black	**HS-V-16-0**
3 inch / Black	**HS-V-48-0**



Clear, Flame-Resistant, Flexible, Fluoropolymer Tubing

RT-375

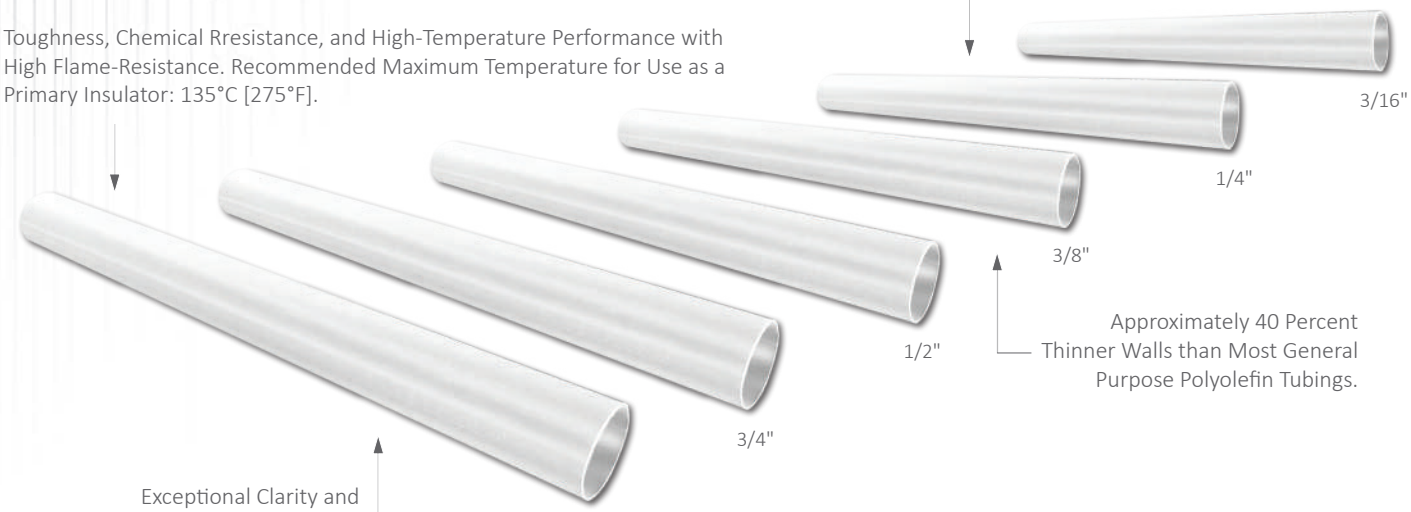
Applications: Protects wire and cable markers subject to extreme abuse, while permitting full inspect-ability of each item covered. Provides bundling and jacketing of wires and cables, protecting them from mechanical and chemical abuse. Protects electronic components while permitting their identification and inspection.

Installation: Minimum shrink temperature: 125°C [257°F]. Minimum full recovery temperature: 150°C [302°F].

Operating Temperature Range: -55°C to 150°C [-67°F to 302°F].

RoHS Compliant with a 2:1 Shrink Ratio.

Toughness, Chemical Rresistance, and High-Temperature Performance with High Flame-Resistance. Recommended Maximum Temperature for Use as a Primary Insulator: 135°C [275°F].



Approximately 40 Percent Thinner Walls than Most General Purpose Polyolefin Tubings.

Exceptional Clarity and Clarity Stability.

RT-375 (Per Foot or Roll)

Size/Color	Part No.
Heat Shrink Tubing	
1/8 inch / Clear	**HS-RT-375-2-C**
3/16 inch / Clear	**HS-RT-375-3-C**
1/4 inch / Clear	**HS-RT-375-4-C**
3/8 inch / Clear	**HS-RT-375-6-C**
1/2 inch / Clear	**HS-RT-375-8-C**
3/4 inch / Clear	**HS-RT-375-12-C**
1 inch / Clear	**HS-RT-375-16-C**
1-1/2 inch / Clear	**HS-RT-375-24-C**

Specifications / Approvals						
Series	UL		CSA		Military	Raychem
RT-375	E35586 VW-1 600 V, 150°C		LR31929 VW-1 600 V, 150°C		AMS-DTL-23053/18*, Class 2	RT-375

*Formerly MIL-I-23053/18 and MIL-DTL-23053/18.

Product Dimensions			
	Inside Diameter		
Size	Min. Expanded as Supplied	Max. Recovered After Heating	Recovered Wall Thickness* After Heating
3/64"	1.2 [0.046]	0.6 [0.023]	0.25 ± 0.05 [0.010 ± 0.002]
1/16"	1.6 [0.063]	0.8 [0.031]	0.25 ± 0.05 [0.010 ± 0.002]
3/32"	2.4 [0.093]	1.2 [0.046]	0.25 ± 0.05 [0.010 ± 0.002]
1/8"	3.2 [0.125]	1.6 [0.062]	0.25 ± 0.05 [0.010 ± 0.002]
3/16"	4.8 [0.187]	2.4 [0.093]	0.25 ± 0.05 [0.010 ± 0.002]
1/4"	6.4 [0.250]	3.2 [0.125]	0.30 ± 0.08 [0.012 ± 0.003]
3/8"	9.5 [0.375]	4.8 [0.187]	0.30 ± 0.08 [0.012 ± 0.003]
1/2"	12.7 [0.500]	6.4 [0.250]	0.30 ± 0.08 [0.012 ± 0.003]
3/4"	19.1 [0.750]	9.5 [0.375]	0.43 ± 0.08 [0.017 ± 0.003]
1"	25.4 [1.000]	12.7 [0.500]	0.48 ± 0.08 [0.019 ± 0.003]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Commercial Protective, Self-Adhering, Edging Material

RAYRIM

Applications: Raychem Rayrim edging material is an extruded strip internally coated with a heat activated adhesive, so that on heating the profile changes from a "V" to a "U" section and the adhesive bonds to the substrate profile.
Manufactured from a Raychem radiation crosslinked polyolefin material, the profile offers a clean and rapid means of covering metal, wood and glass edges for all-round protection.
The flexible nature of the product allows application to both internal and external radii, as well as straight edges, and the continuous operating temperature of-55°C to +80°C [-67°F to 176°F] means that the product can give protection under the most testing circumstances.

Installation: Minimum shrink temperature: 120°C [248°F]. Minimum full recovery temperature: 150°C [302°F].

Operating Temperature Range: -55°C to 80°C [-67°F to 176°F].

- The Flexible Nature Allows Application to Both Internal and External Radii, as well as Straight Edges.
- Covers Metal, Wood and Glass Edges for All-Round Protection.
- RoHS Compliant.

RoHS

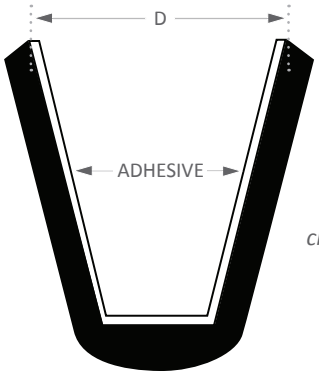


Product Dimensions					
Size	A (Max.)	B (Min.)	C (Min.)	D (Min.)	E (Typical)
Nr. 6	0.6 [0.024]	0.5 [0.020]	3.5 [0.138]	0.8 [0.032]	1.25 [0.049]
Nr. 7	1.0 [0.039]	0.9 [0.035]	4.8 [0.189]	1.6 [0.063]	1.25 [0.049]
Nr. 8	2.0 [0.079]	0.9 [0.035]	6.6 [0.260]	2.5 [0.098]	2.25 [0.089]
Nr. 9	4.2 [0.165]	0.9 [0.035]	13.5 [0.532]	4.5 [0.177]	2.20 [0.087]

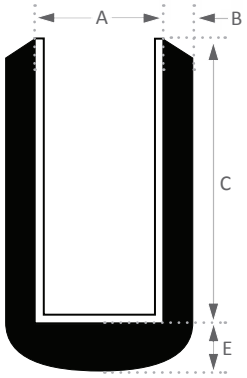
Specifications / Approvals	
Series	Raychem
Rayrim	RK-6182

Application Range		
Plate SWG	Thickness	Recommended Minimum Bend Radius
30-24	0.31-0.56 [0.012-0.022]	10 [0.394]
23-16	0.61-1.63 [0.026-0.064]	15 [0.591]
15-10	1.83-3.25 [0.072-0.128]	20 [0.787]
9-5	3.66-5.38 [0.144-0.212]	25 [0.984]

Performance		
Test	Test Method	Test Requirement
Tensile strength:	ISO 37	10 MPa (min.)
Ultimate elongation:	ISO 37	250% (min.)
Adhesion-Rayrim to aluminium:	--	25 N/25 mm (min.)
For full product performance details consult Raychem Specification RK 6182.		



See top chart (left).



RAYRIM (Per 4 Foot Stick)

Size/Color	Part No.
Heat Shrink Edging	
Nr. 6 / Black	**HS-RayRim - 6**
Nr. 7 / Black	**HS-RayRim - 7**
Nr. 8 / Black	**HS-RayRim - 8**
Nr. 9 / Black	**HS-RayRim - 9**

NOTE: *Internally Coated with a Heat Activated Adhesive, so that on Heating the Profile Changes from a 'V' to a 'U'.*



High-Shrink-Ratio, Adhesive-Lined Polyolefin Tubing

ATUM

Applications: Environmentally seals and protects a wide variety of electrical applications, including back end connector sealing, breakouts, and connector-to-cable transitions. High expansion ratio makes it possible to repair most damaged cable jackets without removing connectors.

Installation: Minimum shrink temperature: 80°C [176°F]. Minimum full recovery temperature: 110°C.

Operating Temperature Range: -55°C to 110°C [-67°F to 230°F].

RoHS Compliant.

The Adhesive in ATUM Tubing Bonds to a Wide Variety of Plastics, Rubbers, and Metals, Including Polyethylene, Aluminum, Steel, and Copper.



Tubing Environmentally Seals and Protects Components and Interconnections. **3:1** and **4:1** Shrink Ratios Allow for Connector-to-Cable Sealing.

Medium Wall Provides Increased Mechanical Protection.

Specifications / Approvals			
Series	**UL**	**Military**	**Raychem**
ATUM	E85381 600V, 110°C	AMS-DTL-23053/4,* Class 3	RW-2063 - Black RK-6024 - Colors and Clear

*Formerly MIL-I-23053/4 and MIL-DTL-23053/4. Sizes 3/1, 6/2, 12/4, 24/8, and 40/13 only.

**Black only, except sizes 3/1 and 4/1.

ATUM (Per 4 Foot Stick)



Size/Color	Part No.
Heat Shrink Tubing	
3:1 Shrink Ratio 1/8" / Black	HS-ATUM-2-0
4:1 Shrink Ratio 1/8" / Black	HS-ATUM-4/1-0
3:1 Shrink Ratio 1/4" / Black	HS-ATUM-4-0
4:1 Shrink Ratio 3/8" / Black	HS-ATUM-8/2-0
3:1 Shrink Ratio 3/8" / Black	HS-ATUM-6-0
4:1 Shrink Ratio 1/2" / Black	HS-ATUM-12/3-0
3:1 Shrink Ratio 1/2" / Black	HS-ATUM-8-0
4:1 Shrink Ratio 3/4" / Black	HS-ATUM-16/4-0
3:1 Shrink Ratio 3/4" / Black	HS-ATUM-12-0
4:1 Shrink Ratio 1" / Black	HS-ATUM-24/6-0
3:1 Shrink Ratio 1" / Black	HS-ATUM-16-0
4:1 Shrink Ratio 1-1/4" / Black	HS-ATUM-32/8-0
3:1 Shrink Ratio 1-1/2" / Black	HS-ATUM-24-0
4:1 Shrink Ratio 2" / Black	HS-ATUM-52/13-0

Product Dimensions				
	Inside Diameter			
Size	**Min. Expanded as Supplied**	**Max. Recovered After Heating**	**Recovered Wall Thickness****	
			Total Wall After Heating	**Adhesive Wall After Heating (Nominal)**
3:1				
3/1	3.0 [0.118]	1.0 [0.039]	1.00 ± 0.28 [0.039 ± 0.010]	0.50 [0.020]
4.5/1.5	4.5 [0.177]	1.5 [0.059]	1.10 ± 0.25 [0.043 ± 0.011]	0.50 [0.020]
6/2	6.0 [0.236]	2.0 [0.079]	1.00 ± 0.28 [0.039 ± 0.010]	0.50 [0.020]
9/3	9.0 [0.354]	3.0 [0.118]	1.40 ± 0.28 [0.055 ± 0.010]	0.61 [0.024]
12/4	12.0 [0.472]	4.0 [0.157]	1.78 ± 0.38 [0.070 ± 0.015]	0.76 [0.030]
19/6	19.0 [0.748]	6.0 [0.236]	2.25 ± 0.55 [0.088 ± 0.022]	0.76 [0.030]
24/8	24.0 [0.940]	8.0 [0.315]	2.54 ± 0.55 [0.100 ± 0.022]	1.02 [0.040]
40/13	40.0 [1.570]	13.0 [0.512]	2.54 ± 0.55 [0.100 ± 0.022]	1.02 [0.040]
4:1				
4/1	4.0 [0.157]	1.0 [0.039]	1.00 ± 0.28 [0.039 ± 0.010]	0.50 [0.020]
8/2	8.0 [0.315]	2.0 [0.079]	1.00 ± 0.28 [0.039 ± 0.010]	0.50 [0.020]
12/3	12.0 [0.472]	3.0 [0.118]	1.40 ± 0.28 [0.055 ± 0.010]	0.61 [0.024]
16/4	16.0 [0.630]	4.0 [0.157]	1.78 ± 0.38 [0.070 ± 0.015]	0.76 [0.030]
24/6	24.0 [0.945]	6.0 [0.236]	2.25 ± 0.55 [0.088 ± 0.022]	0.76 [0.030]
32/8	32.0 [1.260]	8.0 [0.315]	2.54 ± 0.55 [0.100 ± 0.022]	1.02 [0.040]
52/13	52.0 [2.050]	13.0 [0.512]	2.54 ± 0.55 [0.100 ± 0.022]	1.02 [0.040]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Semi-Rigid, Encapsulant-Lined, Polyolefin Tubing

SCL

Applications: Encapsulates components, splices, and terminations where moisture resistance and mechanical protection are required. Encapsulant melts and flows to fill surface irregularities of the substrate. While still hot, the tubing can be blocked to form a wire breakout.

Installation: Minimum shrink temperature: 125°C [257°F]. Minimum full recovery temperature: 135°C [275°F].

Operating Temperature Range: -55°C to 110°C [-67°F to 230°F].

RoHS Compliant.

Splash-Resistant and Moisture Resistant. **Covering: NOT** Intended for Use Where Immersion in Fluids is Required.



Excellent Strain Relief and Insulation of Weak Points. 3:1 Shrink Ratio.

Rugged Protection Against Abrasion, Vibration, and Flexing.

Specifications / Approvals			
Series	UL	Military	Raychem
SCL	E85381 600 V, 125°C	AMS-DTL-23053/4*, Class 1	RT-1301

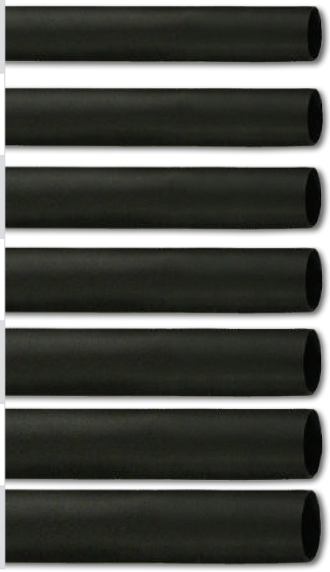
*Formerly MIL-I-23053/4 and MIL-DTL-23053/4.

Product Dimensions					
		Inside Diameter		Recovered Wall Thickness**	
Size	Additional Standard Color	Minimum Expanded as Supplied	Maximum Recovered After Heating	Total Wall After Heating	Meltable Wall After Heating (Nominal)
1/8"	Brown	3.2 [0.125]	0.6 [0.023]	0.96 ± 0.15 [0.038 ± 0.006]	0.51 [0.020]
3/16"	Grey	4.8 [0.187]	1.5 [0.060]	1.09 ± 0.15 [0.043 ± 0.006]	0.64 [0.025]
1/4"	White	6.4 [0.250]	2.0 [0.080]	1.19 ± 0.15 [0.047 ± 0.006]	0.69 [0.027]
3/8"	Red	9.5 [0.375]	3.4 [0.135]	1.27 ± 0.18 [0.050 ± 0.007]	0.76 [0.030]
1/2"	Blue	12.7 [0.500]	5.0 [0.195]	1.39 ± 0.18 [0.055 ± 0.007]	0.89 [0.035]
3/4"	Yellow	19.1 [0.750]	8.0 [0.313]	1.65 ± 0.18 [0.065 ± 0.007]	1.02 [0.040]
1"	N/A	25.4 [1.000]	10.2 [0.400]	1.90 ± 0.18 [0.075 ± 0.007]	1.02 [0.040]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

SCL (Per 4 Foot Lengths)

Size/Color	Part No.
Heat Shrink Tubing	
1/8 inch / Black	**HS-SCL-2-0**
3/16 inch / Black	**HS-SCL-3-0**
1/4 inch / Black	**HS-SCL-4-0**
3/8 inch / Black	**HS-SCL-6-0**
1/2 inch / Black	**HS-SCL-8-0**
3/4 inch / Black	**HS-SCL-12-0**
1 inch / Black	**HS-SCL-16-0**



Dual Wall Adhesive Lined Heat Shrink Tubing

DUAL WALL

Applications: Encapsulates, seals and protects simple in-line splices, bimetallic joints and components from fluids, moisture and corrosion. Repairs damaged wire insulation, especially where flexibility is required. Provides one-step electrical insulation and moisture sealing.

Installation: Minimum shrink temperature: 95°C [203°F]. Minimum full recovery temperature: 121°C [250°F].

Operating Temperature Range: -55°C to 110°C [-67°F to 230°F].



NOTE: Please contact us to inquire about additional sizes and colors.

DUAL WALL (Per 4 Foot Lengths)



Size/Color	Part No.
Heat Shrink Tubing	
1/8" / Black	HS-DW-2-0
1/8" / Red	HS-DW-2-2
1/8" / Clear	HS-DW-2-C
3/16" / Black	HS-DW-3-0
3/16" / Red	HS-DW-3-2
3/16" / Clear	HS-DW-3-C
1/4" / Black	HS-DW-4-0
1/4" / Red	HS-DW-4-2
1/4" / Clear	HS-DW-4-C
3/8" / Black	HS-DW-6-0
3/8" / Red	HS-DW-6-2
3/8" / Clear	HS-DW-6-C
1/2" / Black	HS-DW-8-0
1/2" / Red	HS-DW-8-2
1/2" / Clear	HS-DW-8-C



Size/Color	Part No.
Heat Shrink Tubing	
3/4" / Black	HS-DW-12-0
3/4" / Red	HS-DW-12-2
3/4" / Clear	HS-DW-12-C
1" / Black	HS-DW-16-0
1" / Red	HS-DW-16-2
1" / Clear	HS-DW-16-C

Product Dimensions				
	Inside Diameter			
Size	Min. Expanded as Supplied	Max. Recovered After Heating	Recovered Wall Thickness**	
			Total Wall After Heating (Nominal)	Adhesive Wall After Heating (Nominal)
1/8"	3.2 [0.125]	1.6 [0.062]	0.69 [0.027]	0.23 [0.009]
3/16"	4.8 [0.187]	2.4 [0.093]	0.71 [0.028]	0.25 [0.010]
1/4"	6.4 [0.250]	3.2 [0.125]	0.74 [0.029]	0.13 [0.005]
3/8"	9.5 [0.375]	4.8 [0.187]	0.74 [0.029]	0.13 [0.005]
1/2"	12.7 [0.500]	6.4 [0.250]	0.76 [0.030]	0.15 [0.006]
3/4"	19.1 [0.750]	9.5 [0.375]	0.89 [0.035]	0.15 [0.006]
1"	25.4 [1.000]	12.7 [0.500]	1.07 [0.042]	0.20 [0.011]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Roundit 2000 Wrap-Around Protective Sleeving

Roundit 2000

Applications: Roundit 2000 is a wrap-around sleeving manufactured from modified mono-filament and textured polyester yarn, designed for mechanical protection and maintenance of wire and cable bundles. Its construction with 100% covering ratio provides excellent cut-through and abrasion resistance. The self-wrapping feature of Roundit 2000 allows for quick and easy installation and removal of the product for assembly and maintenance applications. Roundit 2000 may be applied or removed without any manipulation of connectors or fittings and offers an innovative solution in areas where breakouts are required.

It's wrappable construction allows stocking of a limited range of sizes to cover a wide range of diameters. To ease installation, a special assembly tooling 'Roundit-Tool' is also available.

Roundit 2000 has many applications in the aerospace, motorsport, marine, defense, railway, electronics and manufacturing industries.

Operating Temperature Range: -70°C to + 125°C [-94°F to + 247°F].



Technical Performance		
Operating Temp Range:		-70°C to + 125°C
Melt Temperature:	ASTM D276	+256°C
Low Temperature Flexibility:	MIL-DTL-23053E	-70°C
Smoke Density:	ASTM E-1354	Pending
Fire Resistance:	FMVSS-302 Test method D45 1333	Self-extinguishing, Type B
Hard Vacuum:	ASTM E-595	
• TML (Mass)		0.63%
• CVCM (Condensation)		0.16%
• WVR (Steam)		0.06%
Copper Corrosivity:	MIL-I-23053	No Effect
Fluid Resistance:	MIL-I-23053	Tensile Retention
• Jet Fuel: JP-41		100%
• Hydraulic Fluid: (MIL-H-5606)		100%
• Lube oil: (MIL-I-7S0S)		100%
• De-Icing Fluid: (MIL-AOS243)		100%
• Salt Water: (0-S-I926)		100%

Product Dimensions			
Description	**Nominal Size (mm)**	**Standard Packaging (mm)**	**Ordering Description**
Roundit 2000 5	5	150	ROUNDIT-2000-5mm-0
Roundit 2000 8	8	100	ROUNDIT-2000-8mm-0
Roundit 2000 13	13	50	ROUNDIT-2000-13mm-0
Roundit 2000 19	19	25	ROUNDIT-2000-19mm-0
Roundit 2000 25	25	25	ROUNDIT-2000-25mm-0
Roundit 2000 29	29	25	ROUNDIT-2000-29mm-0
Roundit 2000 32	32	15	ROUNDIT-2000-32mm-0
Roundit 2000 38	38	15	ROUNDIT-2000-38mm-0

Product Dimensions *(continued)*			
Description	**Nominal Size (mm)**	**Standard Packaging (mm)**	**Ordering Description**
Application Tools:			
Roundit 2000 5mm	5	1	ROUNDIT- TOOL-SIZE-5
Roundit 2000 8mm	8	1	ROUNDIT- TOOL-SIZE-8
Roundit 2000 13mm	13	1	ROUNDIT- TOOL-SIZE-13

Roundit (Per Foot)

Size/Color	Part No.	
Wrap-Around Sleeving		
3/16" / Black	**Round-It 3/16"**	
5/16" / Black	**Round-It 5/16"**	
3/8" /Black	**Round-It 3/8"**	
1/2" /Black	**Round-It 1/2"**	
3/4" /Black	**Round-It 3/4"**	
1" /Black	**Round-It 1"**	
1-1/4" /Black	**Round-It 1-1/4"**	

HFT5000 Heat-Shrinkable Fabric Tubing

HFT5000

Applications: Designed primarily to provide mechanical abrasion protection for components such as rubber hoses, plastic pipes, and harness wiring bundles. Also suitable for other applications, such as noise and rattle suppression.
The woven construction makes HFT5000 extremely flexible and resistant to trapping water, heat and humidity. Provides outstanding abrasion, chafing and cutting protection, even at hightemperatures. It has a 2:1 shrink ratio for easy installation onto different substrate diameters and sizes and is easily cut with standard industrial cutting equipment.

Installation: Minimum shrink temperature: 80°C [176°F]. Minimum full recovery temperature: 110°C [230°F]. Maximum storage temperature: 60°C [140°F].

Operating Temperature Range: 3000 hours:-40°C to 125°C [-40°F to 257°F]. 1000 hours:-40°C to 150°C [-40°F to 302°F].

Highly Flexible Woven Fabric Construction for Easy, Compliant Installation onto Awkward Substrates Such as Bent Hoses.

RoHS Compliant and Halogen Free.



Multifilament Construction that Ensures Soft, Safe Handling.

Outstanding Abrasion Resistance Over a Wide Temperature Range (Resistant to Harsh Environments).

HFT5000 (Per Foot)



Size/Color	Part No.
Heat Shrinkable Fabric Tubing	
3/16" / Black	**HFT5000-4/2-0**
1/4" / Black	**HFT5000-6/3-0**
1/2" / Black	**HFT5000-12/6-0**
3/4" / Black	**HFT5000-20/10-0**

Specifications / Approvals		
Series	**UL**	**Raychem**
HFT5000	E199379 / Rated 135°C	RW-2060

Product Information		
	Inside Diameter	**Inside Diameter**
Size	**Min. Expanded as Supplied**	**Max. Recovered After Heating**
Standard		
12/6	12 [0.47]	6 [0.24]
20/10	20 [0.79]	10 [0.39]
30/15	30 [1.18]	15 [0.59]
40/20	40 [1.57]	20 [0.79]
50/25	50 [1.97]	25 [0.98]
60/30	60 [2.36]	30 [1.18]
70/35	70 [2.76]	35 [1.38]
Non-Standard High Volume		
25/12	25 [0.98]	12 [0.47]
34/17	34 [1.34]	17 [0.67]
80/40	80 [3.15]	40 [1.57]

Spring-Fast BAP Flexi Wire Protection Grommet

Spring-Fast

Spring-Fast BAP Flexi Wire Protection Grommet Series has all the attributes of the "T" and "BT" Series, but has greater gripping strength for severe shock and vibration environments with 4-axis flexibility.

- Heat Continuous to 185°F (85°C)
- Low Temperature to-40°F (-40° C)
- High Corrosion Resistance
- UL94 V-0 Flammability Rating

Continuous Edge Protection on Flanged Holes, 1/8" or Greater Inside Radius and 1/4" or Greater Outside Radius.

Superior Dielectric Strength.



Multi-Axis Flexibility for Rounded Inside and Outside Corners.

High Shock and Vibration Resistance to rms G 41.7.



Spring-Fast Product Configurations	
	BAP
Axis Conformity:	4
Vicat Softening Point per ASTM D01525 Rate B:	TPE Cushion: ISO306 230°F (110°C)
Opening Temperature Range:	185°F (85°C) -40°F (-40°C)
Dielectric Strength: Volts 60 Hz NASM22529, Section 3.2.1:	1500
Substrate:	Type 304 Stainless Steel
Taber Abrasion Resistance:	TPE Cushion: Per D1044 1 Kg Load, C17 Wheel 25 mg Loss 1000 Cycles
Finish:	TPE Cushion Black Durometer 60 Shore D
Salt Spray Hours:	2000
Immersion:	
Random Shock & Vibration:	MIL-STD-1344, Method 2005.1 Test Condition VI, Letter J Duration 8 Hrs. Longitudinal and 8 Hrs. Perpendicular. rms G 41.7
Flammability:	UL94V-0 - File No. E113553 NZMT2 MIL-STD-202F, Method 111A FAR 25 25.853 Telcordia GR63 Core
Fabrication Options:	Factory Pre-Cut Lengths Bulk or Private Branded Kits "Roll Fast" Application Tool / Full By-Pass Shears "Spring-Fast" Cutter Cart

Spring-Fast Sizes: BAP Series		
Size	**T Sheet Thickness Inches (mm)**	**Width (W)**
00	.020 - .030 (0.5 - 0.8)	0.19 (4.8)
01	.029 - .045 (0.7 - 1.1)	
02	.044 - .056 (1.1 - 1.4)	
03	.055 - .069 (1.4 - 1.7)	
04	.069 - .090 (1.7 - 2.3)	0.28 (6.8)
05	.089 - .114 (2.3 - 2.9)	
06	.113 - .130 (2.9 - 3.3)	

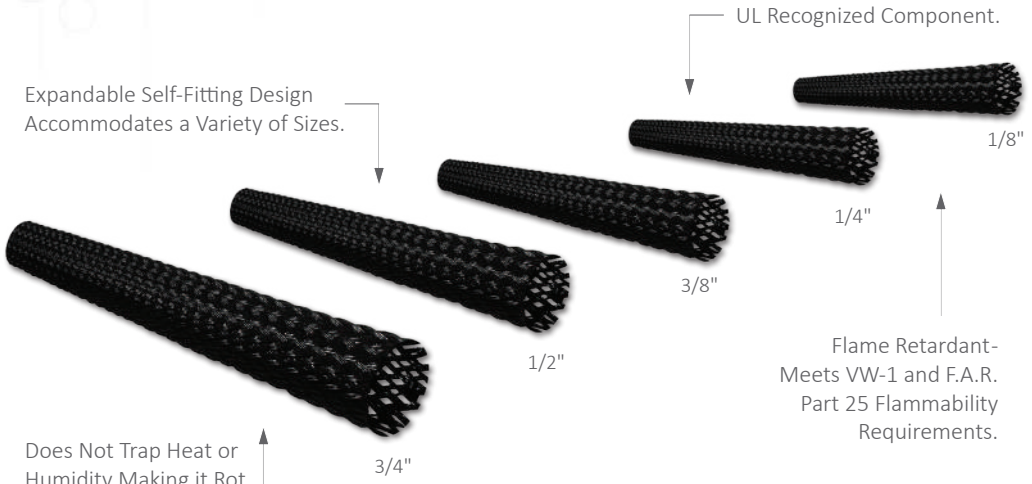
Spring-Fast (Per Foot)

Size/Color	Part No.	
Spring-Fast BAP Flexi Wire		
Black / .020-.030 (0.5-0.8mm) Roll Size: 100 Feet	**BAP0-100-ER0201**	
Black / .029-.045 (0.7-1.1mm) Roll Size: 100 Feet	**BAP1-100-ER0201**	
Black / 044-.056 (1.1-1.4mm) Roll Size: 25 Feet	**BAP2-025-ER0201**	
Black / .069-.090 (1.7-2.3mm) Roll Size: 25 Feet	**BAP4-025-ER0201**	
Black / .113-.130 (2.9-3.3mm) Roll Size: 25 Feet	**BAP6-025-ER0201**	
Black / .029-.045 (0.7-1.1mm) Roll Size: 25 Feet	**SL1-0025-ER0201**	

Expando FR & FR Plus Expandable Protective Sleeving

Expando FR

Applications: Expando FR & Expando FR Plus are expandable sleeves constructed of flame retardant polyester (PET) that is designed for applications up to 125ºC (257ºF). They are UL Recognized Components and meet VW-1 and F.A.R. part 25 flammability requirements. Expando FR Plus balances the properties of mechanical and thermal stability with economy. The patented Bentley-Harris Plus treatment makes end termination neater and easier. The Plus treatment creates a webbing between the filaments of the sleeving to reduce end-fray during installation, allowing Expando FR Plus to be cut with ordinary scissors. This reduces assembly time and eliminates the need for proper ventilation equipment required for hot-knife cutting.



Expando FR & Expando FR Plus protective oversleeves have many applications in the electronics, marine, and general manufacturing industries. The ability of these sleeves to retain flexibility at low temperatures makes them ideal for exposed applications in weather stations, navigation beacons, radar antennas, and airborne and space systems.

Expando products are tough, lightweight oversleeves used to protect cable assemblies, hoses and wire harnesses from chafing, cutting and abrading. The open-braid construction of Expando products enables each size to expand to fit several application shapes and diameters. This open-textile construction also makes them highly flexible and resistant to trapping water, heat and humidity.

Operating Temperature Range: Operating temperature from -70°C to 125°C (-94°F to 257°F).

Performance Data		
Property	**Test Method**	**Result**
Operating Temperature Range:		-70°C to +125°C (-94°F to +257°F)
Low Temperature Flexibility:	MIL-DTL-23053E	-70ºC
Flammability:	UL 1441	VW-1
Flammability:	F.A.R. Part 25	Pass

Product Specifications				
Longitudinal shrinkage should be taken into account when utilizing expansion properties of the sleeve.				
Commercial Part No.	Recommended application Range mm (in)		Maximum weight g/m (lb/ft)	Standard Packaging m (ft)
	Min Ø	Max Ø		
FR Plus 3-X/X FR 3-X/X	2 (3/32")	6 (1/4")	3.13 (0.0021) 3.11 (0.0021)	610 (2,000')
FR Plus 6-X/X FR 6-X/X	3 (1/8")	11 (7/16")	4.61 (0.0031) 4.42 (0.0030)	305 (1,000')
FR Plus 10-X/X FR 10-X/X	6 (1/4")	13 (1/2")	11.91 (0.0080) 11.70 (0.0079)	152 (500')
FR Plus 13-X/X FR 13-X/X	6 (1/4")	19 (3/4")	12.65 (0.0085) 12.60 (0.0085)	152 (500')
FR Plus 19-X/X FR 19-X/X	13 (1/2")	32 (1-1/4")	19.64 (0.0132) 19.64 (0.0132)	152 (500')
FR Plus 32-X/X FR 32-X/X	19 (3/4")	45 (1-3/4")	26.19 (0.0176) 26.19 (0.0176)	76 (250')
FR Plus 45-X/X FR 45-X/X	32 (1-1/4")	70 (2-3/4")	44.20 (0.0297) 44.20 (0.0297)	76 (250')
FR Plus 51-X/X FR 51-X/X	38 (1-1/2")	89 (3-1/2")	54.02 (0.0363) 54.02 (0.0363)	76 (250')
FR Plus 64-X/X FR 64-X/X	45 (1-3/4")	114 (4-1/2"0)	67.12 (0.0451) 61.88 (0.0416)	76 (250')
X/X = Color Code: 0/9 for Black with White Tracer				
9/0 for White with Black Tracer				

Expando FR (Per Foot)

Size/Color	Part No.
Protective Sleeving	
1/8" / Black	**AS-EX-FR-1/8**
1/4" / Black	**AS-EX-FR-1/4**
3/8" / Black	**AS-EX-FR-3/8**
1/2" / Black	**AS-EX-FR-1/2**
3/4" / Black	**AS-EX-FR-3/4**

*Expando sleeving products made with the patented "Plus" treatment should not be used in hard vacuum environments nor immersed in solvents or liquids where Plus particulates could contaminate the system environment. Consult Federal-Mogul Systems Protection for information on protection products for these applications. www.federalmogul.com/sp

Expando PT & PT Plus Expandable Protective Sleeving

Expando PT

Applications: Expando PT & Expando PT Plus are tough, lightweight oversleeves used to protect cable assemblies, hoses and wire harnesses from chafing, cutting and abrading. The open-braid construction of Expando products enables each size to expand to fit several application shapes and diameters. This open-textile construction also makes them highly flexible and resistant to trapping water, heat and humidity.

Expando PT and Expando PT Plus are braided polyester (PET) sleeves designed for applications up to 125°C. General purpose industrial/commercial products, Expando PT and Expando PT Plus balance the properties of mechanical and thermal stability with economy.

The patented Bentley-Harris Plus treatment makes end termination neater and easier. The Plus treatment creates a webbing between the filaments of the sleeving to reduce end fray during installation and through the life of the product. Because of the frayresistant properties of Expando PT Plus, it can be cut with ordinary scissors, which reduces assembly time and eliminates the need for proper ventilation equipment required for hot-knife cutting.

Expando PT and Expando PT Plus oversleeves have many applications in the aeronautical, marine, electronic and general manufacturing Industries. The ability of Expando PT and Expando PT Plus to retain flexibility at low temperatures make them ideal for exposed applications in weather stations, navigation beacons, radar antennas, and airborne and space systems.

Operating Temperature Range: Operating temperature from -70°C to 125°C (-94°F to 257°F).

Performance Data		
Property	**Test Method**	**Result**
Operating Temperature Range:		-70°C to +125°C (-94°F to +257°F)
Low Temperature Flexibility:	MIL-DTL-23053E	-70ºC
Melt Temperature:	ASTM D-3418	+250°C

Product Specifications				
Longitudinal shrinkage should be taken into account when utilizing expansion properties of the sleeve.				
Commercial Part No.	Recommended application Range mm (in)		Maximum weight g/m (lb/ft)	Standard Packaging m (ft)
	Min Ø	Max Ø		
PT Plus 3-X PT 3-X	2 (3/32")	6 (1/4")	2.62 (0.0018) 2.62 (0.0018)	610 (2,000')
PT Plus 6-X PT 6-X	3 (1/8")	11 (7/16")	4.32 (0.0029) 3.93 (0.0026)	305 (1,000')
PT Plus 10-X PT 10-X	6 (1/4")	13 (1/2")	9.90 (0.0066) 9.49 (0.0064)	152 (500')
PT Plus 13-X PT 13-X	6 (1/4")	19 (3/4")	12.60 (0.0085) 11.61 (0.0078)	(500')
PT Plus 19-X PT 19-X	13 (1/2")	32 (1-1/4")	19.64 (0.0132) 18.01 (0.0121)	152 (500')
PT Plus 32-X PT 32-X	19 (3/4")	45 (1-3/4")	26.19 (0.0176) 24.85 (0.0167)	76 (250')
PT Plus 45-X PT 45-X	32 (1-1/4")	70 (2-3/4")	44.20 (0.0297) 42.56 (0.0286)	76 (250')
PT Plus 51-X PT 51-X	38 (1-1/2")	89 (3-1/2")	54.02 (0.0363) 53.34 (0.0358)	76 (250')
PT Plus 64-X PT 64-X	45 (1-3/4")	114 (4-1/2")	58.17 (0.0391) 63.40 (0.0426)	76 (250')
XX = Color Code: 0 = Black 9 = Natural 6 = Blue 5 = Green				
4 = Yellow 2 = Red 3 = Orange 8 = Gray				



Expando PT (Per Foot)

Size/Color	Part No.
Protective Sleeving	
1/2" / Black	**AS-EX-PT-1/2**
1-1/4" / Black	**AS-EX-PT-1-1/4**



*Expando sleeving products made with the patented "Plus" treatment should not be used in hard vacuum environments nor immersed in solvents or liquids where Plus particulates could contaminate the system environment. Consult Federal-Mogul Systems Protection for information on protection products for these applications. www.federalmogul.com/sp

Firesleeve Reflective Thermal Protection

Firesleeve

Applications: Provides high performance flexible protection cover for wire harnesses, electrical cables, sensor wirings, control cables and tubings. Firesleeve gives protection against high temperatures, radiation heat, direct flames and liquid metal splashes. The inner sleeve has good insulation properties and the red silicone outer cover is self-extinguishing. Flexible sleeving allows easy application to curved or irregular shapes. Sleeving is also resistant to hydraulic fluids, lubricating oils, and fuels.

Fiberglass Construction Withstands Temperatures to 550°C (Non Flammable) and Conforms Well to Various Profiles.

RoHS Compliant with High Flexibility.



Excellent Cut-Through and Abrasion Resistance.

Ideal for the Protection of Wire Harnesses, Sensor Wires and Small Electrical Compnents.

Installation: Allows the bundling of cables, hoses and wires while providing excellent thermal and abrasion resistance. Recommended standard cut length ≤ 500 mm are in 5 mm increments, Recommended standard cut length ≥ 501 mm are in 10 mm increments.

Operating Temperature Range: -70°C to +200ºC [-94°F to +392ºF Class H.

Firesleeve (Per Foot)

Size/Color	Part No.
Silicone Covered Fiberglass Insulator	
3/16" / Black 3/16" / Red 3/16" / Silver	**FSLW-3-B** **FSLW-3-R** **FSLW-3-S**
1/4" / Black 1/4" / Red 1/4" / Silver	**FSLW-4-B** **FSLW-4-B** **FSLW-4-B**
3/8" / Black 3/16" / Red 3/16" / Silver	**FSLW-6-B** **FSLW-6-R** **FSLW-6-S**
7/16" / Red	**FSLW-5-R**
1/2" / Black 1/2" / Red 1/2" / Silver	**FSLW-8-B** **FSLW-8-R** **FSLW-8-S**
5/8" / Black 5/8" / Silver	**FSLW-10-B** **FSLW-10-S**

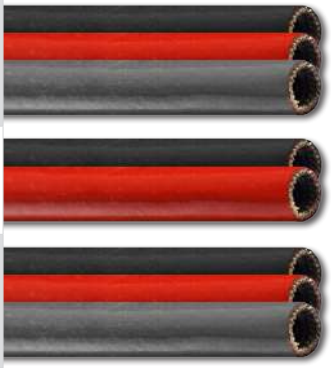
Consult Federal-Mogul Systems Protection for information on protection products for these applications.
www.federalmogul.com/sp

Product Specifications				
Longitudinal shrinkage should be taken into account when utilizing expansion properties of the sleeve.				
Part Number	Nominal Internal Diameter*		Nominal Wall Thickness	
	in	mm	in	mm
FSLW-3	3/16"	5.0	.020	.55
FSLW-4	1/4"	6.0	.025	.65
FSLW-5	7/16"	11.0	--	--
FSLW-6	3/8"	10.0	.030	.75
FSLW-8	1/2"	13.0	.030	.75
FSLW-10	5/8"	16.0	.030	.75
FSLW-12	3/4"	19.0	.060	1.5
FSLW-14	7/8"	22.0	.060	1.5
FSLW-16	1"	22.0	.060	1.5
FSLW-16	1"	25.0	.060	1.5
(*) These are minimum diameters. All of the tolerances are positive.				

Product Specifications		
Test	Tested Property	Result
--	Temperature Rating	200°C 550°C (Fiber Glass Braid)
ISO 6722	Heat Aging : 240h at 225°C	Neither any visible degradation or loss of flexibility Shrinkage < 10%
FMVSS 302 Flame Resistance Non flammable Test Method D45 1333	Flame Resistance	Non flammable Type A
BH100-16	Cold Bend Test	• No visible degradation or alteration after being immersed in: Diesel : 24h at 70°C Motor oil 15W-40 : 1h at 80°C • Expansion of coating after being immersed in: Petrol, 98 octane, un-leaded: 24h at 70°C Brake fluid DOT 3 : 1h at 85°C
Test Method D47 1098	Fluid Resistance	--
Performance related studies showing Delta T measurement can be carried out according to specific applications and usage.		

Firesleeve (Per Foot - continued)

Size/Color	Part No.
Silicone Covered Fiberglass Insulator	
3/4" / Black	**FSLW-12-B**
3/4" / Red	**FSLW-12-R**
3/4" / Silver	**FSLW-12-S**
7/8" / Black	**FSLW-14-B**
7/8" / Red	**FSLW-14-R**
1" / Black	**FSLW-16-B**
1" / Red	**FSLW-16-R**
1" / Silver	**FSLW-16-S**



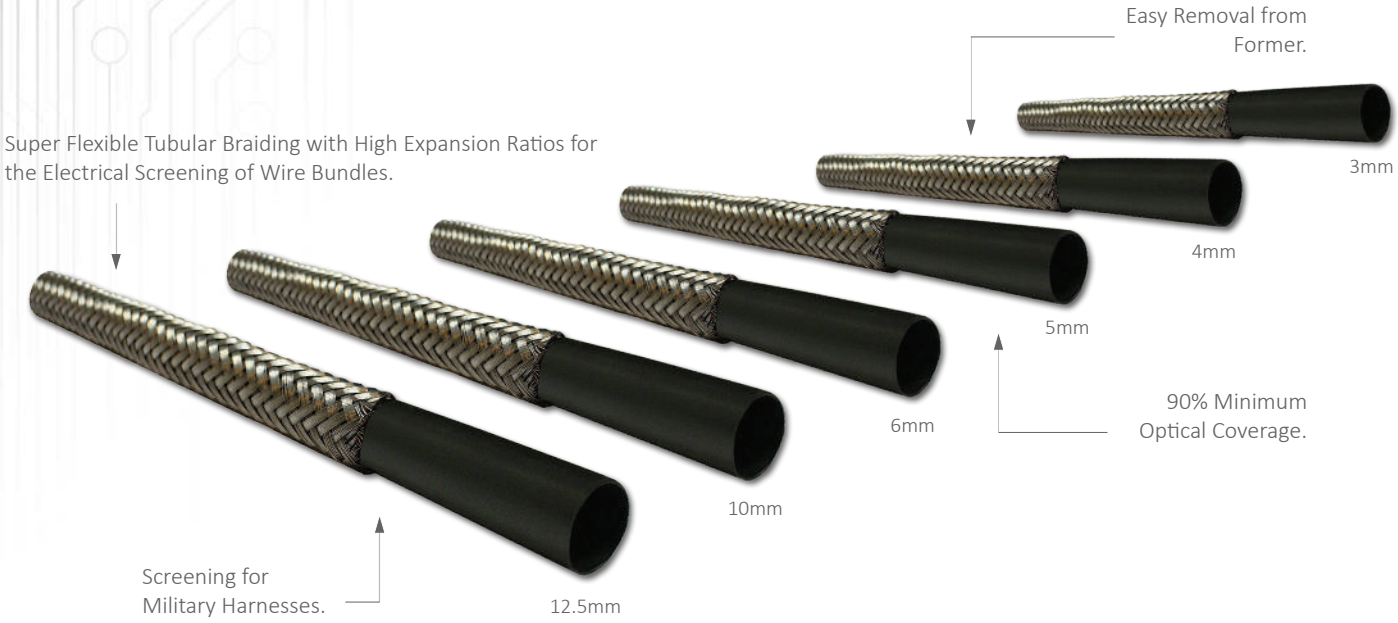
Consult Federal-Mogul Systems Protection for information on protection products for these applications. www.federalmogul.com/sp

Raybraid Tubular Braiding

Raybraid

Applications: To ease the assembly of hand built harnesses, Raychem manufacture a range of braids for the electrical screening of wire bundles. Raybraid is supplied on a tube former which facilitates assembly and is more robust than braid supplied in flattened form. Minimum 90% optical coverage available in 10 different sizes from 3.0 to 12.5mm supplied diameter offered in tinned copper finish.

Performance Requirements: To be tested to and meet the requirements of the issue in effect of WSD 1922.



Raybraid (Per Foot)



Size	Part No.
Tubular Braided Protective Sleeving	
3mm	**RAY-90-3.0**
4mm	**RAY-90-4.0**
5mm	**RAY-90-5.0**
6mm	**RAY-90-6.0**
10mm	**RAY-90-10.0**
12.5mm	**RAY-90-12.5**

Product Specifications							
		Tinned Copper Wire					
Part No.	Former Dia.	Carriers No.	Ends Per Carrier No.	Strand Size (AWG/mm)	Min. Cover-age %	Cable Bundle Tolerance	
						Max. (mm)	Min. (mm)
RAY-90-3.0	3.0 ± 0.13	16	5	36/0.13	90	3.5	2.0
RAY-90-4.0	4.0 ± 0.25	16	7	36/0.13	90	5.0	3.0
RAY-90-5.0	5.0 ± 0.25	24	6	36/0.13	90	6.0	4.0
RAY-90-6.0	6.0 ± 0.25	24	7	36/0.13	90	7.0	5.0
RAY-90-10.0	10.0 ± 0.25	24	9	34/0.16	90	12.0	7.0
RAY-90-12.5	12.5 ± 0.25	24	10	34/0.16	90	13.0	11.0



Deutsch I.P.D Connectors



Delphi Connectors



Deutsch Autosport Connectors



Specialty Connectors

Deutsch I.P.D. Connectors

General Specifications

Insulation Resistance: 1000 megohms minimum at 250°C.

Submersion: Properly wired and mated connection will withstand immersion under three feet of water without loss of electronic qualities or leakage.

Fluid Resistance: Connectors show no damage when exposed to most fluids used in industrial applications.

Vibration: No unlocking or unmating and exhibits no mechanical or physical damage after sinusoidal vibration levels of 20 G's at 10 to 2000 Hz in each of the three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond.

Temperature: Operative at temperatures from-55°C to +125°C. Continuous at rated current.

Contact Retention: Contacts withstand a minimum load of:
20 lbs. (89N) for size 20
25 lbs. (111N) for size 16
30 lbs. (133N) for size 12
35 lbs. (156N) for size 8
35 lbs. (156N) for size 4

Features	Benefits
Integral Connector Latch	Tactile and Audible Assembly Feedback
Rugged Thermoplastic Housing	Field Proven Long Service Life
-55°C to +125°C Operating Temperature	Engine Compartment Rated
Available Configurations: DTM/DT 2, 3, 4, 6, 8 & 12- Size 20/16 DTP 2 & 4- Size 12 DTHD 1- Size 4, 8 & 12	Meets Most Harness Design Requirements
Silicone Seals:	Superior Environmental Seal
DTM: Accepts AWG 22- 18 wire DT: Accepts AWG 20- 14 wire DTP: Accepts AWG 14- 10 wire DTHD: Accepts AWG 14- 6 wire	Seals on .053" to .120 dia. (1.35mm to 3.05mm) Seals on .053" to .145 dia. (1.35mm to 3.68 mm) Seals on .097" to .170 dia. (2.46mm to 4.32mm) Seals on .134 to .292 dia. (3.40mm to 7.42mm)
Crimp Contacts with Option of Gold or Nickel Finish, Solid or Stamped Construction	Low Costs, High Reliability Terminals for Data & Signal Transmission
Current Rating All Contacts @ 125°C No Derating DTM- 7.5 Amps DT- 13 Amps DTP- 25 Amps DTHD- 25 to 100 Amps	Meets Most Signal Requirements
Fail-Safe Secondary Locks All (Except DTHD)	Positive Contact Retention
Hand Insertable/Removable Contacts	No Special Tools Required (Except DTHD)
Budget Minded	Low Installation Costs

DT Series (Receptacles)

NOTE: DT Series Receptacles on this page require a size 16 pin contact (see page 46).

Part No.	DT04-2P
Deutsch DT Series Receptacle	
Number of Contacts: 2	
Wedge Lock Part#: W2P	
Rated @ 13 amps and accepts 20 to 14 AWG wire.	



Part No.	DT04-3P
Deutsch DT Series Receptacle	
Number of Contacts: 3	
Wedge Lock Part#: W3P	
Rated @ 13 amps and accepts 20 to 14 AWG wire.	



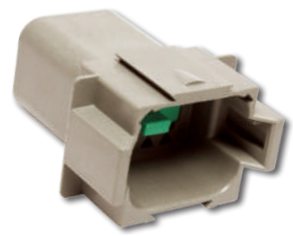
Part No.	DT04-4P
Deutsch DT Series Receptacle	
Number of Contacts: 4	
Wedge Lock Part#: W4P	
Rated @ 13 amps and accepts 20 to 14 AWG wire.	



Part No.	DT04-6P
Deutsch DT Series Receptacle	
Number of Contacts: 6	
Wedge Lock Part#: W6P	
Rated @ 13 amps and accepts 20 to 14 AWG wire.	

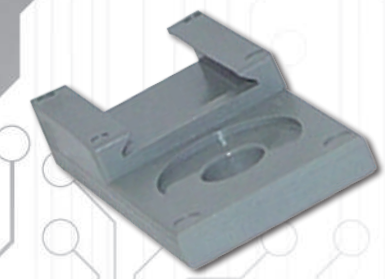


Part No.	DT04-8P
Deutsch DT Series Receptacle	
Number of Contacts: 8	
Wedge Lock Part#: W8P	
Rated @ 13 amps and accepts 20 to 14 AWG wire.	
Available in A, B, C or D keying options.	



Part No.	DT04-12PA
Deutsch DT Series Receptacle	
Number of Contacts: 12	
Wedge Lock Part#: W12P	
Rated @ 13 amps and accepts 20 to 14 AWG wire.	
Available in A, B, C or D keying options.	





DT Series (Mounting Clip)

Part No.	1011-026-0205
DT Mounting Clip	
(all DT04, DTM04, DTP04 and DTHD04)	
Part No.	**1011-027-0805**
(DT04-8P)	

DT Series (Plugs)

NOTE: DT series plugs on this page require a size 16 socket contact (see page 47).



Part No.	DT06-2S-P012
Deutsch DT Series Plug	
Number of Contacts: 2	
Wedge Lock Part#: W2S-P012	
Rated @ 13 amps and accepts 20 to 14 AWG wire.	



Part No.	DT06-3S-P012
Deutsch DT Series Plug	
Number of Contacts: 3	
Wedge Lock Part#: W3S-P012	
Rated @ 13 amps and accepts 20 to 14 AWG wire.	



Part No.	DT06-4S-P012
Deutsch DT Series Plug	
Number of Contacts: 4	
Wedge Lock Part#: W4S-P012	
Rated @ 13 amps and accepts 20 to 14 AWG wire.	



Part No.	DT06-6S-P012
Deutsch DT Series Plug	
Number of Contacts: 6	
Wedge Lock Part#: W6S-P012	
Rated @ 13 amps and accepts 20 to 14 AWG wire.	



Part No.	DT06-8S-P012
Deutsch DT Series Receptacle	
Number of Contacts: 8	
Wedge Lock Part#: W8S-P012	
Rated @ 13 amps and accepts 20 to 14 AWG wire.	
Available in A, B, C or D keying options.	



Part No.	DT06-12SA-P012
Deutsch DT Series Receptacle	
Number of Contacts: 12	
Wedge Lock Part#: W12S-P012	
Rated @ 13 amps and accepts 20 to 14 AWG wire.	
Available in A, B, C or D keying options.	



DT Series (Flange Mount)

NOTE: DT Series Flange Mounts on this page require a size 16 pin contact (see page 46).

Part No.	DT04-3P-L012
Flange Mount Connector	
Number of Contacts: 3	
Wedge Lock Part#: W3P	



Part No.	DT04-4P-L012
Flange Mount Connector	
Number of Contacts: 4	
Wedge Lock Part#: W4P	



Part No.	DT04-8P-L012
Flange Mount Connector	
Number of Contacts: 8	
Wedge Lock Part#: W8P	
Available in A, B, C or D keying options.	



Part No.	DT04-12PA-L012
Flange Mount Connector	
Number of Contacts: 12	
Wedge Lock Part#: W12P	
Available in A, B, C or D keying options.	

DTM Series (Receptacles)

NOTE: DTM Series Receptacles on this page require a size 20 pin contact (see page 46).

Part No.	DTM04-2P
Deutsch DTM Series Receptacle	
Number of Contacts: 2	
Wedge Lock Part#: WM2P	
Rated @ 7.5 amps and accepts 20 to 24 AWG wire.	



Part No.	DTM04-3P
Deutsch DTM Series Receptacle	
Number of Contacts: 3	
Wedge Lock Part#: WM3P	
Rated @ 7.5 amps and accepts 20 to 24 AWG wire.	



Part No.	DTM04-4P
Deutsch DTM Series Receptacle	
Number of Contacts: 4	
Wedge Lock Part#: WM4P	
Rated @ 7.5 amps and accepts 20 to 24 AWG wire.	



Part No.	DTM04-6P
Deutsch DTM Series Receptacle	
Number of Contacts: 6	
Wedge Lock Part#: WM6P	
Rated @ 7.5 amps and accepts 20 to 24 AWG wire.	



Part No.	DTM04-8P
Deutsch DTM Series Receptacle	
Number of Contacts: 8	
Wedge Lock Part#: WM8P	
Rated @ 7.5 amps and accepts 20 to 24 AWG wire.	

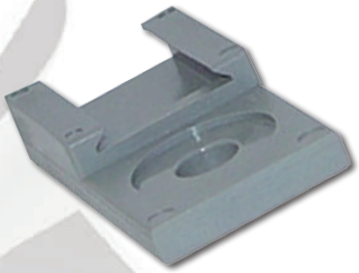


Part No.	DTM04-12PA
Deutsch DTM Series Receptacle	
Number of Contacts: 12	
Wedge Lock Part#: WM12P	
Rated @ 7.5 amps and accepts 20 to 24 AWG wire.	



DT Series (Mounting Clip)

Part No.	1011-026-0205
DT Mounting Clip	
(all DT04, DTM04, DTP04 and DTHD04)	
Part No.	**1011-027-0805**
(DT04-8P)	



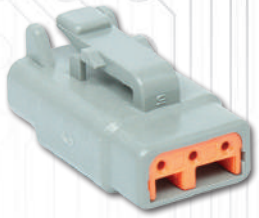
DTM Series (Plugs)

NOTE: DTM Series plugs on this page requires a size 20 socket (see page 47).

Part No.	DTM06-2S
Deutsch DTM Series Plug	
Number of Contacts: 2	
Wedge Lock Part#: WM2S	
Rated @ 7.5 amps and accepts 20 to 24 AWG wire.	



Part No.	DTM06-3S
Deutsch DTM Series Plug	
Number of Contacts: 3	
Wedge Lock Part#: WM3S	
Rated @ 7.5 amps and accepts 20 to 24 AWG wire.	



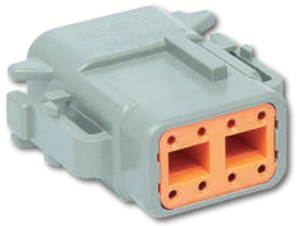
Part No.	DTM06-4S
Deutsch DTM Series Plug	
Number of Contacts: 4	
Wedge Lock Part#: WM4S	
Rated @ 7.5 amps and accepts 20 to 24 AWG wire.	



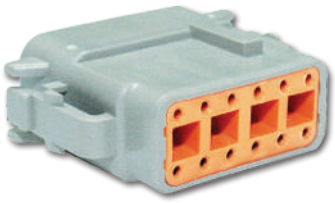
Part No.	DTM06-6S
Deutsch DTM Series Plug	
Number of Contacts: 6	
Wedge Lock Part#: WM6S	
Rated @ 7.5 amps and accepts 20 to 24 AWG wire.	



Part No.	DTM06-8S
Deutsch DTM Series Plug	
Number of Contacts: 8	
Wedge Lock Part#: WM8S	
Rated @ 7.5 amps and accepts 20 to 24 AWG wire.	

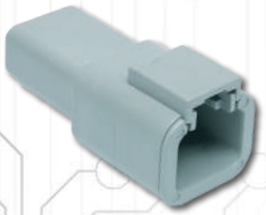


Part No.	DTM06-12SA
Deutsch DTM Series Plug	
Number of Contacts: 12	
Wedge Lock Part#: WM12S	
Rated @ 7.5 amps and accepts 20 to 24 AWG wire.	



DTP Series (Receptacles)

NOTE: DTP Series receptacles on this page require a size 12 pin contact (see page 46).

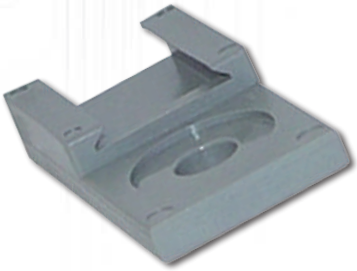


Part No.	DTP04-2P
Deutsch DTP Series Receptacle	
Number of Contacts: 2	
Wedge Lock Part#: WP2P	
Rated @ 25 amps and accepts 12 to 14 AWG wire.	



Part No.	DTP04-4P
Deutsch DTP Series Receptacle	
Number of Contacts: 4	
Wedge Lock Part#: WP4P	
Rated @ 13 amps and accepts 20 to 14 AWG wire.	

DT Series (Mounting Clip)



Part No.	1011-026-0205
DT Mounting Clip	
(all DT04, DTM04, DTP04 and DTHD04)	
Part No.	**1011-027-0805**
(DT04-8P)	

DTP Series (Plugs)

NOTE: DTP Series plugs on this page requires a size 12 socket (see page 47).



Part No.	DTP06-2S
Deutsch DTP Series Receptacle	
Number of Contacts: 2	
Wedge Lock Part#: WP2S	
Rated @ 25 amps and accepts 12 to 14 AWG wire.	



Part No.	DTP06-4S
Deutsch DTP Series Receptacle	
Number of Contacts: 4	
Wedge Lock Part#: WP4S	
Rated @ 25 amps and accepts 12 to 14 AWG wire.	

DTP Series (Receptacle)

NOTE: All receptacles on this page require a size 12 pin contact (see page 46).



Part No.	DTP04-4P-L012
Deutsch DTP Series Flange Mount	
Number of Contacts: 4	
Wedge Lock Part#: WP4P	

DTHD Series (Receptacles)



Part No.	DTHD04-1-12P
Deutsch DTHD Series Receptacle	
NOTE: Requires a size 12 pin contact (see page 46).	
Rated @ 25 amps	



Part No.	DTHD04-1-8P
Deutsch DTHD Series Receptacle	
NOTE: Requires a size 8 pin contact (see page 46).	
Rated @ 60 amps	



Part No.	DTHD04-1-4P
Deutsch DTHD Series Receptacle	
NOTE: Requires a size 4 pin contact (see page 46).	
Rated @ 100 amps	

DTHD Series (Plugs)



Part No.	DTHD06-1-12S
Deutsch DTHD Series Plug	
NOTE: Requires a size 12 socket contact (see page 47).	
Rated @ 25 amps	



Part No.	DTHD06-1-8S
Deutsch DTHD Series Plug	
NOTE: Requires a size 8 socket contact (see page 47).	
Rated @ 60 amps	



Part No.	DTHD06-1-4S
Deutsch DTHD Series Plug	
NOTE: Requires a size 4 socket contact (see page 47).	
Rated @ 100 amps	

DTHD Series (Flange Mount)



Part No.	DTHD04-1-4P-L009
Deutsch DTHD Series Flange Mount	
NOTE: Requires a size 4 pin contact (see page 47).	
Rated @ 100 amps	

HD10 Series Connectors



Receptacles

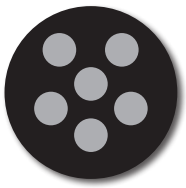


Plugs

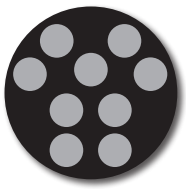
HD10 Series (Receptacles)

NOTE: Pin Contacts (see page 46).

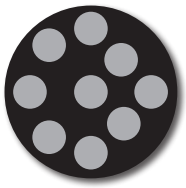
Part No.	HD10-6-12P
Deutsch HD10 Series Flange Mount	
Pin Contacts:	(6 Size 12)



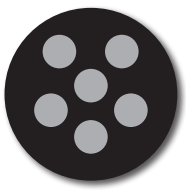
Part No.	HD10-9-16P
Deutsch HD10 Series Flange Mount	
Pin Contacts:	(9 Size 16)



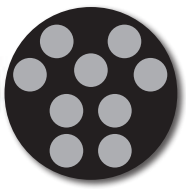
Part No.	HD10-9-96P
Deutsch HD10 Series Flange Mount	
Pin Contacts:	(9 Size 16)



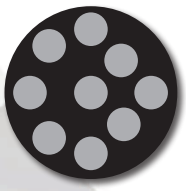
Part No.	HD14-6-96P
Deutsch HD10 Series In-Line	
Pin Contacts:	(6 Size 12)



Part No.	HD14-9-16P
Deutsch HD10 Series In-Line	
Pin Contacts:	(9 Size 16)



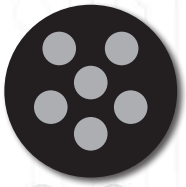
Part No.	HD14-9-96P
Deutsch HD10 Series In-Line	
Pin Contacts:	(9 Size 16)



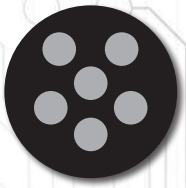
HD10 Series (Plugs)

NOTE: Pin Contacts (see page 46).

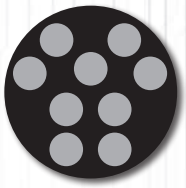
Part No.	HD16-6-12S-B010
Deutsch HD10 Series Twist Lock	
Pin Contacts:	(6 Size 12)



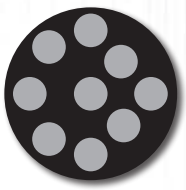
Part No.	HD16-6-96S
Deutsch HD10 Series Twist Lock	
Pin Contacts:	(6 Size 12)



Part No.	HD16-9-16S
Deutsch HD10 Series Twist Lock	
Pin Contacts:	(9 Size 16)



Part No.	HD16-9-96S
Deutsch HD10 Series Twist Lock	
Pin Contacts:	(9 Size 16)



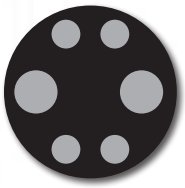
HD20 Series Connectors



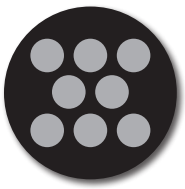
Socket Contacts



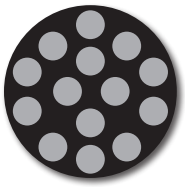
Pin Contacts



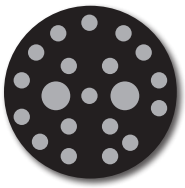
Part No.	HDP26-18-6SN
Deutsch HD20 Series Plug	
Socket Contacts	(2 Size 4) (4 Size 16)
Part No.	HDP24-18-6PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(2 Size 4) (4 Size 16)



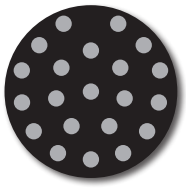
Part No.	HDP26-18-8SN
Deutsch HD20 Series Plug	
Socket Contacts	(8 Size 12)
Part No.	HDP24-18-8PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(8 Size 12)



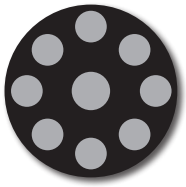
Part No.	HDP26-18-14SN
Deutsch HD20 Series Plug	
Socket Contacts	(14 Size 16)
Part No.	HDP24-18-14PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(14 Size 16)



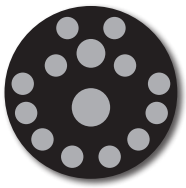
Part No.	HDP26-18-20SN
Deutsch HD20 Series Plug	
Socket Contacts	(2 Size 16) (18 Size20)
Part No.	HDP24-18-20PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(2 Size 16) (18 Size20)



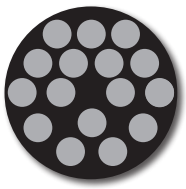
Part No.	HDP26-18-21SN
Deutsch HD20 Series Plug	
Socket Contacts	(21 Size 20)
Part No.	HDP24-18-21PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(21 Size 20)



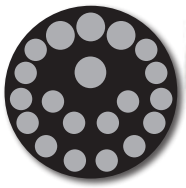
Part No.	HDP26-24-9SN
Deutsch HD20 Series Plug	
Socket Contacts	(1 size 4) (2 size 8) (6 size 12)
Part No.	HDP24-24-9PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(1 size 4) (2 size 8) (6 size 12)



Part No.	HDP26-24-14SN
Deutsch HD20 Series Plug	
Socket Contacts	(1 size 4) (1 size 12) (12 size 16)
Part No.	HDP24-24-14PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(1 size 4) (1 size 12) (12 size 16)



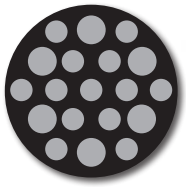
Part No.	HDP26-24-16SN
Deutsch HD20 Series Plug	
Socket Contacts	(16 Size 12)
Part No.	HDP24-24-16PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(16 Size 12)



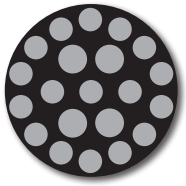
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Deutsch HD20 Series Plug	
Socket Contacts	(1 Size 8) (3 Size 12) (14 Size 16)
Part No.	HDP24-24-18PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(1 Size 8) (3 Size 12) (14 Size 16)

NOTE: Socket and Pin Contacts (see page 46 and 47).

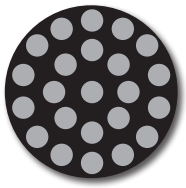
Part No.	HDP26-24-19SN
Deutsch HD20 Series Plug	
Socket Contacts	(6 Size 12) (13 Size 16)
Part No.	HDP24-24-19PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(6 Size 12) (13 Size 16)



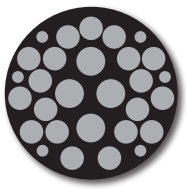
Part No.	HDP26-24-21SN
Deutsch HD20 Series Plug	
Socket Contacts	(4 Size 12) (17 Size 16)
Part No.	HDP24-24-21PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(4 Size 12) (17 Size 16)



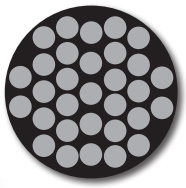
Part No.	HDP26-24-23SN
Deutsch HD20 Series Plug	
Socket Contacts	(23 Size 16)
Part No.	HDP24-24-23PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(23 Size 16)



Part No.	HDP26-24-29SN
Deutsch HD20 Series Plug	
Socket Contacts	(4 Size 12) (19 Size 16) (6 Size 20)
Part No.	HDP24-24-29PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(4 Size 12) (19 Size 16) (6 Size 20)



Part No.	HDP26-24-31SN
Deutsch HD20 Series Plug	
Socket Contacts	(31 Size 16)
Part No.	HDP24-24-31PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(31 Size 16)



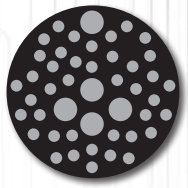
Part No.	HDP26-24-33SN
Deutsch HD20 Series Plug	
Socket Contacts	(33 Size 20)
Part No.	HDP24-24-33PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(33 Size 20)



Part No.	HDP26-24-35SN
Deutsch HD20 Series Plug	
Socket Contacts	(3 Size 16) (32 Size 20)
Part No.	HDP24-24-35PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(3 Size 16) (32 Size 20)



Part No.	HDP26-24-47SN
Deutsch HD20 Series Plug	
Socket Contacts	(5 Size 16) (42 Size 20)
Part No.	HDP24-24-47PN
Deutsch HD20 Series Receptacle	
Pin Contacts	(5 Size 16) (42 Size 20)

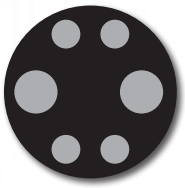


HD30 Series Connectors

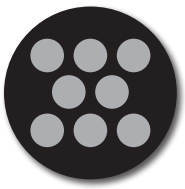


Socket Contacts

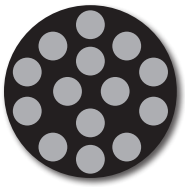
Pin Contacts



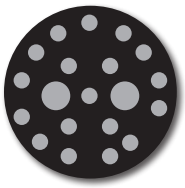
Part No.	HD36-18-6SN
Deutsch HD30 Series Plug	
Socket Contacts	(2 Size 4)
	(4 Size 16)
Part No.	HD34-18-6PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(2 Size 4)
	(4 Size 16)



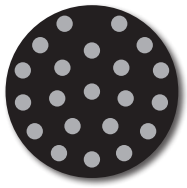
Part No.	HD36-18-8SN
Deutsch HD30 Series Plug	
Socket Contacts	(8 Size 12)
Part No.	HD34-18-8PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(8 Size 12)



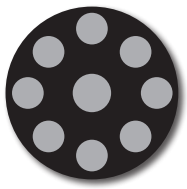
Part No.	HD36-18-14SN
Deutsch HD30 Series Plug	
Socket Contacts	(14 Size 16)
Part No.	HD34-18-14PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(14 Size 16)



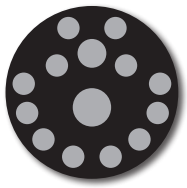
Part No.	HD36-18-20SN
Deutsch HD30 Series Plug	
Socket Contacts	(2 Size 16)
	(18 Size20)
Part No.	HD34-18-20PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(2 Size 16)
	(18 Size20)



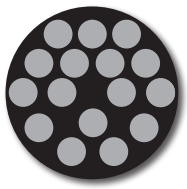
Part No.	HD36-18-21SN
Deutsch HD30 Series Plug	
Socket Contacts	(21 Size 20)
Part No.	HD34-18-21PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(21 Size 20)



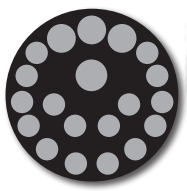
Part No.	HD36-24-9SN
Deutsch HD30 Series Plug	
Socket Contacts	(1 size 4)
	(2 size 8)
	(6 size 12)
Part No.	HD34-24-9PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(1 size 4)
	(2 size 8)
	(6 size 12)



Part No.	HD36-24-14SN
Deutsch HD30 Series Plug	
Socket Contacts	(1 size 4)
	(1 size 12)
	(12 size 16)
Part No.	HDP34-24-14PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(1 size 4)
	(1 size 12)
	(12 size 16)

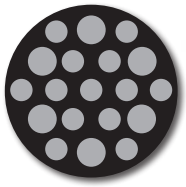


Part No.	HD36-24-16SN
Deutsch HD30 Series Plug	
Socket Contacts	(16 Size 12)
Part No.	HD34-24-16PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(16 Size 12)

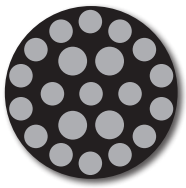


Part No.	HD36-24-18SN
Deutsch HD30 Series Plug	
Socket Contacts	(1 Size 8)
	(3 Size 12)
	(14 Size 16)
Part No.	HD34-24-18PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(1 Size 8)
	(3 Size 12)
	(14 Size 16)

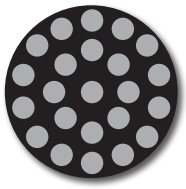
Part No.	HD36-24-19SN
Deutsch HD30 Series Plug	
Socket Contacts	(6 Size 12) (13 Size 16)
Part No.	HD34-24-19PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(6 Size 12) (13 Size 16)



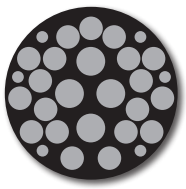
Part No.	HD36-24-21SN
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Deutsch HD30 Series Receptacle	
Pin Contacts	(4 Size 12) (17 Size 16)



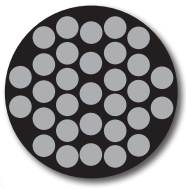
Part No.	HD36-24-23SN
Deutsch HD30 Series Plug	
Socket Contacts	(23 Size 16)
Part No.	HD34-24-23PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(23 Size 16)



Part No.	HD36-24-29SN
Deutsch HD30 Series Plug	
Socket Contacts	(4 Size 12) (19 Size 16) (6 Size 20)
Part No.	HD34-24-29PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(4 Size 12) (19 Size 16) (6 Size 20)



Part No.	HD36-24-31SN
Deutsch HD30 Series Plug	
Socket Contacts	(31 Size 16)
Part No.	HD34-24-31PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(31 Size 16)



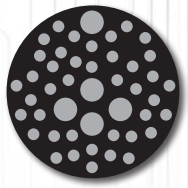
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Deutsch HD30 Series Plug	
Socket Contacts	(33 Size 20)
Part No.	HD34-24-33PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(33 Size 20)



Part No.	HD36-24-35SN
Deutsch HD30 Series Plug	
Socket Contacts	(3 Size 16) (32 Size 20)
Part No.	HD34-24-35PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(3 Size 16) (32 Size 20)



Part No.	HD36-24-47SN
Deutsch HD30 Series Plug	
Socket Contacts	(5 Size 16) (42 Size 20)
Part No.	HD34-24-47PN
Deutsch HD30 Series Receptacle	
Pin Contacts	(5 Size 16) (42 Size 20)



HD20 & HD30 Series Accessories





Part No.	HDC34-18
Deutsch Dust Cap - Plug	
Size	18
Part No.	HDC34-24
Deutsch Dust Cap - Plug	
Size	24



Part No.	HDC36-18
Deutsch Dust Cap - Receptacle	
Size	18
Part No.	HDC36-24
Deutsch Dust Cap - Receptacle	
Size	24



Part No.	114020-90
Deutsch Panel Nut	
Size	18



Part No.	2411-002-1805
Deutsch Panel Nut (Plastic)	
Size	18



Part No.	112263-90
Deutsch Panel Nut	
Size	24



Part No.	2411-001-2405
Deutsch Panel Nut (Plastic)	
Size	24



Part No.	114021
Deutsch Lock Washer	
Size	18



Part No.	112264
Deutsch Lock Washer	
Size	24



Part No.	0413-204-2005
Cavity Plug	
Size:	20
Color:	Red



Part No.	114017
Cavity Plug	
Size:	12, 16
Color:	White



Part No.	114018
Cavity Plug	
Size:	8
Color:	White



Part No.	114019
Cavity Plug	
Size:	4
Color:	White

Deutsch Contacts



Common Contacts

The word “common” describes the Deutsch contact system well. Solid and stamped contacts can be used interchangeably in any Deutsch connector.

The stamped and formed style includes 10 sizes each of pin and socket contacts that terminate 10-22 AWG (5.0- 0.35mm²). The specific contact is determined by the outside diameter of wire insulation and conductor size.

The solid style contact terminates wire from 6 AWG to 20 AWG (13 - 0.5mm²). The solid style is available in 6 sizes each of pin and socket. The applicable contact is determined by the size of the conductor only.

The selection of Deutsch Industrial connectors insures that the contact termination system will be compatible. This reduces changes in the assembly of the wire harness. It also improves performance, reliability and maintainability. Critical functions to any electrical system. The use of a common contact system eliminates many of the failures reported in harnesses where hundreds of different terminations are used. The end result of selecting Deutsch is increased profits and long term performance.

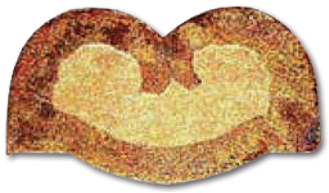
Crimped Contacts

Mechanically crimping contacts is now the dominant wire termination method, for some very good reasons:

1) Since no wet process is involved, corrosion is not a problem. No adhesives, fluxes or additives are used.
2) Strength, accuracy and over-all reliability of a crimped contact are controlled by the crimp tool, not the operator. The field tools (except #4 solid style) release the contact only after the full crimping cycle is completed. The tools are relatively inexpensive.
3) With smaller wire, the crimp is as strong as the wire itself.
4) The joint can be inspected visually. Viewing the wire through an inspection hole in the contact makes inspection quick, easy and sure, both by the operator and by the inspector.
5) The crimping tool is universal, it accepts both pins and sockets of many types.

Contact Resistance				
Contact Size	Wire Gauge AWG (mm²)	Test Current (AMPS)	Resistance (mV) Solids	Resistance (mV) Stamped & Formed
20	22 (.35)	5.0	60	100
--	20 (.50)	7.5	60	100
--	18 (.80)	7.5	60	100
16	16 (1.0)	7.5	60	100
--	20 (.50)	7.5	60	100
--	18 (.80)	10	60	100
--	16 (1.0)	13	60	100
--	14 (2.0)	13	60	100
12	14 (2.0)	18	60	100
--	12 (3.0)	25	60	100
--	10 (5.0)	25	N/A	100
8	8 (8.60)	60	60	N/A
--	10 (5.60)	60	60	N/A
4	6 (13.0)	100	60	N/A

Fig.1: STAMPED & FORMED STYLE



Cross-Section Across Axis

Fig.2: SOLID STYLE



Indenter Crimp Cross Section Across Axis

Fig.1: STAMPED & FORMED STYLE

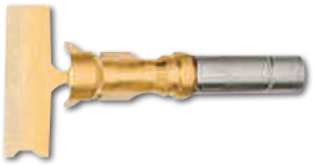
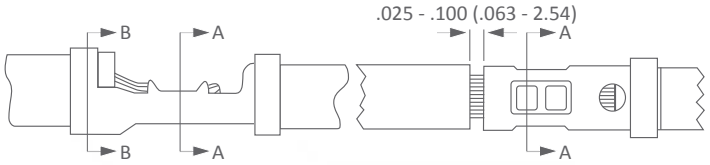


Fig.2: SOLID STYLE





Deutsch Pin Contacts



Part No.	0460-202-20141
Deutsch Pin Contact (Male)	
Contact Size: 20	
Rated @ 7.5 amps	
Finish: Nickel	
Wire Gauge Range: 20-24 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0460-202-2031
Deutsch Pin Contact (Male)	
Contact Size: 20	
Rated @ 7.5 amps	
Finish: Gold	
Wire Gauge Range: 20-24 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0460-202-16141
Deutsch Pin Contact (Male)	
Contact Size: 16	
Rated @ 13 amps	
Finish: Nickel	
Wire Gauge Range: 16-20 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0460-202-1631
Deutsch Pin Contact (Male)	
Contact Size: 16	
Rated @ 13 amps	
Finish: Gold	
Wire Gauge Range: 16-20 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0460-215-16141
Deutsch Pin Contact (Male)	
Contact Size: 16	
Rated @ 13 amps	
Finish: Nickel	
Wire Gauge Range: 14-16 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0460-215-1631
Deutsch Pin Contact (Male)	
Contact Size: 16	
Rated @ 13 amps	
Finish: Gold	
Wire Gauge Range: 14-16 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0460-204-12141
Deutsch Pin Contact (Male)	
Contact Size: 12	
Rated @ 25 amps	
Finish: Nickel	
Wire Gauge Range: 14-12 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0460-220-1231
Deutsch Pin Contact (Male)	
Contact Size: 12	
Rated @ 25 amps	
Finish: Gold	
Wire Gauge Range: 14-12 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0460-204-08141
Deutsch Pin Contact (Male)	
Contact Size: 8	
Rated @ 60 amps	
Finish: Nickel	
Wire Gauge Range: 8-10 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0460-204-0490
Deutsch Pin Contact (Male)	
Contact Size: 4	
Rated @ 100 amps	
Finish: Nickel	
Wire Gauge Range: 6 AWG **(8AWG)***	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0421-203-04141
Reducer Sleeve	
***In order to use **8 AWG** wire in a size 4 contact, use: **Reducer Sleeve**	

Deutsch Socket Contacts

Part No.	0462-201-20141
Deutsch Socket Contact (Female)	
Contact Size: 20	
Rated @ 7.5 amps	
Finish: Nickel	
Wire Gauge Range: 20-24 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0462-201-2031
Deutsch Socket Contact (Female)	
Contact Size: 20	
Rated @ 7.5 amps	
Finish: Gold	
Wire Gauge Range: 20-24 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0462-201-16141
Deutsch Socket Contact (Female)	
Contact Size: 16	
Rated @ 13 amps	
Finish: Nickel	
Wire Gauge Range: 16-20 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0462-201-1631
Deutsch Socket Contact (Female)	
Contact Size: 16	
Rated @ 13 amps	
Finish: Gold	
Wire Gauge Range: 16-20 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0462-209-16141
Deutsch Socket Contact (Female)	
Contact Size: 16	
Rated @ 13 amps	
Finish: Nickel	
Wire Gauge Range: 14-16 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0462-209-1631
Deutsch Socket Contact (Female)	
Contact Size: 16	
Rated @ 13 amps	
Finish: Gold	
Wire Gauge Range: 14-16 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0462-203-12141
Deutsch Pin Contact (Male)	
Contact Size: 12	
Rated @ 25 amps	
Finish: Nickel	
Wire Gauge Range: 14-12 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0462-210-1231
Deutsch Pin Contact (Male)	
Contact Size: 12	
Rated @ 25 amps	
Finish: Gold	
Wire Gauge Range: 14-12 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0462-203-08141
Deutsch Pin Contact (Male)	
Contact Size: 8	
Rated @ 60 amps	
Finish: Nickel	
Wire Gauge Range: 8-10 AWG	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0462-203-04141
Deutsch Pin Contact (Male)	
Contact Size: 4	
Rated @ 100 amps	
Finish: Nickel	
Wire Gauge Range: 6 AWG **(8 AWG)***	
Solid Contact: Continuous Current Rated to 125°C	



Part No.	0421-203-04141
Reducer Sleeve	
***In order to use **8 AWG** wire in a size 4 contact, use: **Reducer Sleeve**	



Delphi Connectors

General Specifications

XXXXXXXXXXXXX XXXXX: XXXXXXXXXXXXXXXXXXXXXXXXXXXXX. XXXXXXXXXXXXX.

XXXXX: Xxxxxxxxxx

Features	Benefits

Weather Pack (Shrouds)

NOTE: Contacts, Seals and Cavity Plugs sold separately (see pages 49 & 50).



Part No.	12010996
Delphi Weather Pack Shroud	
Number of Contacts: 1	



Part No.	12010973
Delphi Weather Pack Shroud	
Number of Contacts: 2	



Part No.	12010717
Delphi Weather Pack Shroud	
Number of Contacts: 3	



Part No.	12015024
Delphi Weather Pack Shroud	
Number of Contacts: 4	
NOTE: 4 Pin Square Connector	



Part No.	12020830
Delphi Weather Pack Shroud	
Number of Contacts: 4	



Part No.	12010975
Delphi Weather Pack Shroud	
Number of Contacts: 6	

Weather Pack (Towers)

NOTE: Contacts and Seals sold separately (see pages 49 & 50).

Part No.	12015791
Delphi Weather Pack Tower	
Number of Contacts: 1	



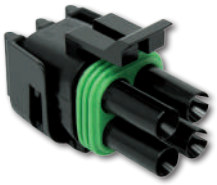
Part No.	12015792
Delphi Weather Pack Tower	
Number of Contacts: 2	



Part No.	12015793
Delphi Weather Pack Tower	
Number of Contacts: 3	



Part No.	12015798
Delphi Weather Pack Shroud	
Number of Contacts: 4	
NOTE: 4 Pin Square Connector	



Part No.	12020832
Delphi Weather Pack Tower	
Number of Contacts: 4	



Part No.	12015799
Delphi Weather Pack Tower	
Number of Contacts: 6	



Weather Pack (Contacts)

Part No.	12124582
Delphi Weather Pack Contact	
Pin: Male	
Wire Gauge Range: 14-16 AWG	



Part No.	12124580
Delphi Weather Pack Contact	
Socket: Female	
Wire Gauge Range: 14-16 AWG	



Part No.	12089040
Delphi Weather Pack Tower	
Pin: Male	
Wire Gauge Range: 18-20 AWG	



Part No.	12089188
Delphi Weather Pack Tower	
Socket: Female	
Wire Gauge Range: 18-20 AWG	



Weather Pack (Seals)



Part No.	12015193
Delphi Weather Pack Seal	
Color: Blue	
Cable Diameter:	
Millimeters: 4.30- 3.45	
Inches: .169- .136	



Part No.	12010293
Delphi Weather Pack Seal	
Color: Light Gray	
Cable Diameter:	
Millimeters: 3.49- 2.81	
Inches: .137- .110	



Part No.	12015323
Delphi Weather Pack Seal	
Color: Green	
Cable Diameter:	
Millimeters: 2.85- 2.03	
Inches: .112- .080	



Part No.	12041351
Delphi Weather Pack Seal	
Color: Orange	
Cable Diameter:	
Millimeters: 2.42- 2.03	
Inches: .095- .080	



Part No.	12089679
Delphi Weather Pack Seal	
Color: Purple	
Cable Diameter:	
Millimeters: 2.15- 1.60	
Inches: .085- .063	



Part No.	12015899
Delphi Weather Pack Seal	
Color: Dark Red	
Cable Diameter:	
Millimeters: 1.70- 1.29	
Inches: .067- .051	

Weather Pack (Cavity Plug)



Part No.	12010300
Delphi Weather Pack Cavity Plug	
Color: Green	
Cavity Inside Diameter:	
Millimeters: 6.7	

Metri- Pack

Part No.	12110192
Delphi Metri-Pack Pressure Sending Unit	
Number of Contacts: 3	





Contact Part#:
12089290 (20-22ga)

Part No.	AMG-794617-12
Delphi Metri-Pack Gauge Connector	
Number of Positions: 12	
Number of Rows: 2	





Contact Part#:
AMG-794606-1
Wire Size: 20-24ga

Part No.	12047662
Delphi Metri-Pack Temp Sending Unit	
Number of Contacts: 2	





Wedge Lock Part#:
12047664



Contact Part#:
12064971 (20-22ga)

Part No.	1445022-3
Delphi Metri-Pack Gauge Connector	
Number of Positions: 3	
Number of Rows: 1	





Contact Part#:
AMG-794606-1
Wire Size: 20-24ga

Part No.	AMG-794617-0
Delphi Metri-Pack Gauge Connector	
Number of Positions: 10	
Number of Rows: 2	





Contact Part#:
AMG-794606-1
Wire Size: 20-24ga

Many more styles, sizes and colors available!



Deutsch Autosport



Deutsch Autosport

Part No.	XXXXXXXXXX
Deutsch Autosport	
XXXXXXXXXX	

General Specifications

XXXXXXXXXXXXX XXXXX: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX. XXXXXXXXXXXXX.

XXXXX: Xxxxxxxxxx

XXXXXXXXXXXXXXXXXXXXX:
XXXXXXXXXXXX

Features	Benefits

Specialty Connectors

General Specifications

XXXXXXXXXXXXX XXXXX: XXXXXXXXXXXXXXXXXXXXXXXXXXXXX. XXXXXXXXXXXXX.

XXXXX: Xxxxxxxxxx

XXXXXXXXXXXXXXXXXXXXX:
XXXXXXXXXXXX

Features	Benefits

Connector Components & Contacts

Part No.	AMP-206036-2
Flanged Receptacle	





Contact Part#:
AMP-66259-1
Wire Size: 8-10AWG
Finish: Tin



Contact Part#:
AMP-66261-2
Wire Size: 12-14AWG
Finish: Gold

Part No.	AMP-206037-2
Free Hanging Plug	





Contact Part#:
AMP-66741-8
Wire Size: 8-10AWG
Finish: Tin



Contact Part#:
AMP-66740-6
Wire Size: 12-14AWG
Finish: Gold

Part No.	AMP-206070-1
Black Shell w/Wire Clamp	



Part No.	MS3476L14-18S
Mil-Spec Connector Assembly	



Back



Cap



Pins



Tool





Part No.	MS3476A14-5S
Mil-Spec Connector Assembly	



Back



Caps



Pins

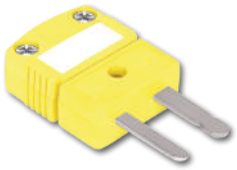


Tool

Thermocouple Connectors & Wire



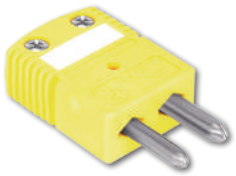
Part No.	K-HMPW-K-F
Thermocouple Connector	
K-Type Thermocouple Connector	
Female	
Mini	



Part No.	K-HMPW-K-M
Thermocouple Connector	
K-Type Thermocouple Connector	
Male	
Mini	



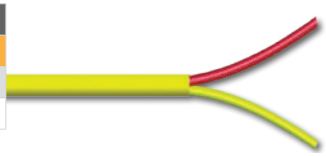
Part No.	K-USTW-K-F
Thermocouple Connector	
K-Type Thermocouple Connector	
Female	
Standard	



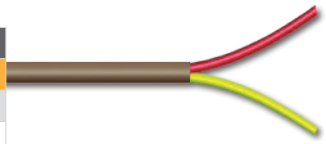
Part No.	K-OSTW-K-M
Thermocouple Connector	
K-Type Thermocouple Connector	
Male	
Standard	

Specialty Wire (Per Foot)

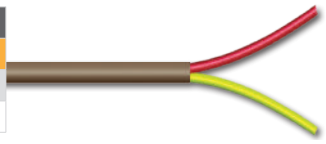
Part No.	EXPP-K-20S-100
Thermocouple Wire 20GA Stranded	
Red, Yellow w/Yellow Jacket	
K-Type	



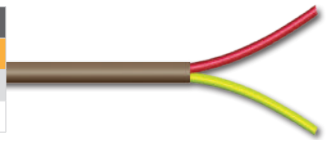
Part No.	TT-K--20-200
Thermocouple Wire 20GA	
Red, Yellow w/Brown Jacket	
K-Type	



Part No.	TT- K-24-200
Thermocouple Wire 24GA	
Red, Yellow w/Brown Jacket	
K-Type	



Part No.	TT-K-24S-200
Thermocouple Wire 24 GA Stranded	
Red, Yellow w/Brown Jacket	
K-Type	

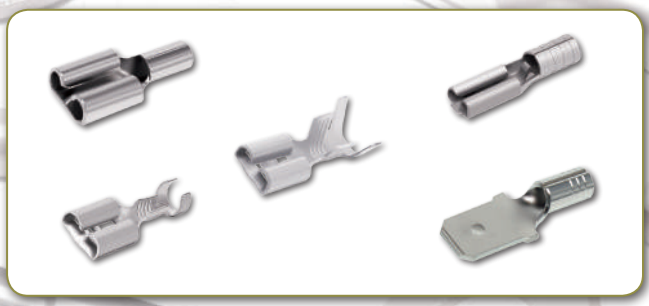




High Temperature Ring Terminals



Heavy-Duty Ring Terminals



Spade Terminals



BMRS 34 Series Ring Termials



Butt Splices

High Temperature Ring Terminals

NOTE: All High Temperature Ring Terminals are Rated @ 900 Degrees Fahrenheit.

Part No.	RT8-18-22
High Temperature Ring Terminal	
Stud/Screw Size: #8	
Wire Size: 18-22AWG	
Material: Nickel-Plated Steel	



Part No.	RT8-14-16
High Temperature Ring Terminal	
Stud/Screw Size: #8	
Wire Size: 16-14AWG	
Material: Nickel-Plated Steel	



Part No.	RT8-10-12
High Temperature Ring Terminal	
Stud/Screw Size: #8	
Wire Size: 10-12AWG	
Material: Nickel-Plated Steel	



Part No.	RT10-18-22
High Temperature Ring Terminal	
Stud/Screw Size: #10	
Wire Size: 18-22AWG	
Material: Nickel-Plated Steel	



Part No.	RT10-14-16
High Temperature Ring Terminal	
Stud/Screw Size: #10	
Wire Size: 16-14AWG	
Material: Nickel-Plated Steel	



Part No.	RT10-10-12
High Temperature Ring Terminal	
Stud/Screw Size: #10	
Wire Size: 10-12AWG	
Material: Nickel-Plated Steel	



Part No.	RT1/4-18-22
High Temperature Ring Terminal	
Stud/Screw Size: 1/4"	
Wire Size: 18-22AWG	
Material: Nickel-Plated Steel	



Part No.	RT1/4-14-16
High Temperature Ring Terminal	
Stud/Screw Size: 1/4"	
Wire Size: 16-14AWG	
Material: Nickel-Plated Steel	



Part No.	RT1/4-10-12
High Temperature Ring Terminal	
Stud/Screw Size: 1/4"	
Wire Size: 10-12AWG	
Material: Nickel-Plated Steel	



Part No.	RT1/4-8
High Temperature Ring Terminal	
Stud/Screw Size: 1/4"	
Wire Size: 8AWG	
Material: Nickel-Plated Steel	



Part No.	RT1/4-6
High Temperature Ring Terminal	
Stud/Screw Size: 1/4"	
Wire Size: 6AWG	
Material: Nickel-Plated Steel	



Part No.	RT5/16-18-22
High Temperature Ring Terminal	
Stud/Screw Size: 5/16"	
Wire Size: 18-22AWG	
Material: Nickel-Plated Steel	



Part No.	RT5/16-14-16
High Temperature Ring Terminal	
Stud/Screw Size: 5/16"	
Wire Size: 16-14AWG	
Material: Nickel-Plated Steel	



Part No.	RT5/16-10-12
High Temperature Ring Terminal	
Stud/Screw Size: 5/16"	
Wire Size: 10-12AWG	
Material: Nickel-Plated Steel	



Part No.	RT5/16-6
High Temperature Ring Terminal	
Stud/Screw Size: 5/16"	
Wire Size: 6AWG	
Material: Nickel-Plated Steel	



Part No.	RT3/8-14-16
High Temperature Ring Terminal	
Stud/Screw Size: 3/8"	
Wire Size: 16-14AWG	
Material: Nickel-Plated Steel	





Part No.	RT3/8-10-12
High Temperature Ring Terminal	
Stud/Screw Size: 3/8"	
Wire Size: 10-12AWG	
Material: Nickel-Plated Steel	



Part No.	RT3/8-8
High Temperature Ring Terminal	
Stud/Screw Size: 3/8"	
Wire Size: 8AWG	
Material: Nickel-Plated Steel	



Part No.	RT3/8-6
High Temperature Ring Terminal	
Stud/Screw Size: 3/8"	
Wire Size: 6AWG	
Material: Nickel-Plated Steel	



Part No.	RT3/8-4
High Temperature Ring Terminal	
Stud/Screw Size: 3/8"	
Wire Size: 4AWG	
Material: Nickel-Plated Steel	

Heavy-Duty Ring Terminals



Part No.	RT1/4-8HD
Heavy-Duty Ring Terminal	
Stud Size (inches): 1/4"	
Wire Size: 8	
Material: Tin-Plated Copper Lug	



Part No.	RT1/4-6HD
Heavy-Duty Ring Terminal	
Stud Size (inches): 1/4"	
Wire Size: 6	
Material: Tin-Plated Copper Lug	



Part No.	RT1/4-4HD
Heavy-Duty Ring Terminal	
Stud Size (inches): 1/4"	
Wire Size: 4	
Material: Tin-Plated Copper Lug	



Part No.	RT1/4-2HD
Heavy-Duty Ring Terminal	
Stud Size (inches): 1/4"	
Wire Size: 2	
Material: Tin-Plated Copper Lug	

NOTE: Extra Heavy-Duty Terminal



Part No.	RT5/16-8HD
Heavy-Duty Ring Terminal	
Stud Size (inches): 5/16"	
Wire Size: 8	
Material: Tin-Plated Copper Lug	



Part No.	RT5/16-6HD
Heavy-Duty Ring Terminal	
Stud Size (inches): 5/16"	
Wire Size: 6	
Material: Tin-Plated Copper Lug	



Part No.	RT5/16-4HD
Heavy-Duty Ring Terminal	
Stud Size (inches): 5/16"	
Wire Size: 4	
Material: Tin-Plated Copper Lug	



Part No.	RT5/16-2HD
Heavy-Duty Ring Terminal	
Stud Size (inches): 5/16"	
Wire Size: 2	
Material: Tin-Plated Copper Lug	



Part No.	
Heavy-Duty Ring Terminal	
Stud Size (inches): 3/8"	
Wire Size: 8	
Material: Tin-Plated Copper Lug	



Part No.	RT3/8-6HD
Heavy-Duty Ring Terminal	
Stud Size (inches): 3/8"	
Wire Size: 6	
Material: Tin-Plated Copper Lug	



Part No.	RT3/8-4HD
Heavy-Duty Ring Terminal	
Stud Size (inches): 3/8"	
Wire Size: 4	
Material: Tin-Plated Copper Lug	



Part No.	RT3/8-2HD
Heavy-Duty Ring Terminal	
Stud Size (inches): 3/8"	
Wire Size: 2	
Material: Tin-Plated Copper Lug	

Spade Terminals

Part No.	ST1/4-16-14-SF
Spade Terminal	
Width (inches): .250	
Type: Female	
Wire Size: 16-14AWG	
Style: Non-Insulated	
Material: Nickel-Plated Steel	



Part No.	ST1/4-16-14-SM
Spade Terminal	
Width (inches): .250	
Type: Male	
Wire Size: 16-14AWG	
Style: Non-Insulated	
Material: Nickel-Plated Steel	



Part No.	ST1/8-14-16
Spade Terminal	
Width (inches): .110	
Type: Female	
Wire Size: 16-14AWG	
Style: Non-Insulated	
Material: Tin-Plated Copper	



Part No.	ST1/4-14-16
Spade Terminal	
Width (inches): .250	
Type: Female	
Wire Size: 16-14AWG	
Style: Non-Insulated	
Material: Tin-Plated Copper	



Part No.	ST1/4-10-12
Spade Terminal	
Width (inches): .250	
Type: Female	
Wire Size: 12-10AWG	
Style: Non-Insulated	
Material: Tin-Plated Copper	



BMRS 34 Series Ring Terminal

BMRS-34 series billet ring terminals are made from machined steel and nickel plated. They are designed to crimp onto the wire insulation as well as the conductor for superior strain relief. These ring terminals are designed to ideally withstand the fatigue created from today's high speed alternators and are ideal for use on starter leads.

NOTE: BMRS-34 series ring terminals require specific crimping procedures and are recommended for use on our in house wire assemblies.

Part No.	BMRS-34-0002
BMRS 34 Series Ring Terminal	
Diameter: 1/4"	
Wire Size: 4AWG	
Orientation: 15 Degrees	
Material: Nickel-Plated Steel	



Part No.	BMRS-34-0003
BMRS 34 Series Ring Terminal	
Diameter: 3/8"	
Wire Size: 4AWG	
Orientation: 15 Degrees	
Material: Nickel-Plated Steel	



Part No.	BMRS-34-0004
BMRS 34 Series Ring Terminal	
Diameter: 5/16"	
Wire Size: 4AWG	
Orientation: 15 Degrees	
Material: Nickel-Plated Steel	



Part No.	BMRS-34-0005
BMRS 34 Series Ring Terminal	
Diameter: 5/16"	
Wire Size: 2AWG	
Orientation: 90 Degrees	
Material: Nickel-Plated Steel	



Part No.	BMRS-34-0006
BMRS 34 Series Ring Terminal	
Diameter: 3/8"	
Wire Size: 2AWG	
Orientation: 15 Degrees	
Material: Nickel-Plated Steel	



Butt Splices



Part No.	SP18-22
Butt Splice	
Wire Size: 18-22AWG	



Part No.	SP14-16
Butt Splice	
Wire Size: 14-16AWG	



Part No.	SP10-12
Butt Splice	
Wire Size: 10-12AWG	



Part No.	SP8
Butt Splice	
Wire Size: 8AWG	



Part No.	SP6
Butt Splice	
Wire Size: 6AWG	



Part No.	SP4
Butt Splice	
Wire Size: 4AWG	



Part No.	SP6-8
Butt Splice	
Wire Size: 6 x 8AWG (Step Down Splice)	

High Temperature Butt Splices



Part No.	SP18-22-HT
High Temperature Butt Splice	
Wire Size: 18-22AWG	
Material: Nickel-Plated Steel	



Part No.	SP14-16-HT
High Temperature Butt Splice	
Wire Size: 14-16AWG	
Material: Nickel-Plated Steel	



Part No.	SP10-12-HT
High Temperature Butt Splice	
Wire Size: 10-12AWG	
Material: Nickel-Plated Steel	



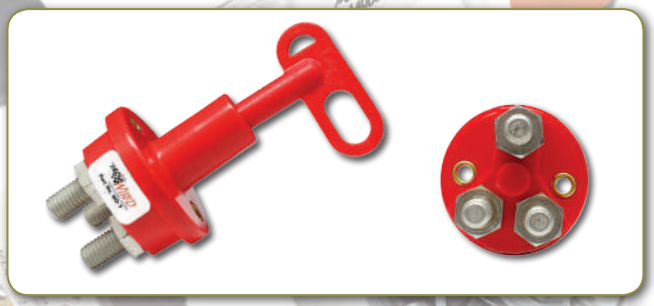
Toggle Switches



Push Button Switches



Relay & Solenoid Switches



Master Disconnect Switches



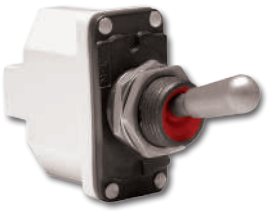
Switch Accessories

Toggle Switches

Eaton™ / Cutler Hammer™

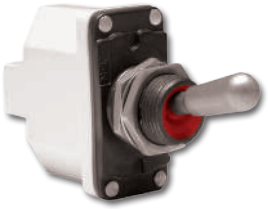
NOTE: All switches are environmentally sealed. Contact rated @ 20A Resistive and 15A Inductive @ 28VDC.Momentary Contact rated @ 15A Resistive and 10A Inductive @ 28VDC.

Part No.	8510K1
Toggle Switch	
Single Pole / Double Throw	
ON / OFF / ON	
Manufacturer: Eaton™ / Cutler Hammer™	



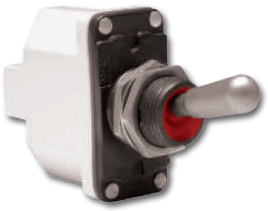


Part No.	8510K2
Toggle Switch	
Single Pole / Double Throw	
MOMENTARY / OFF / MOMENTARY	
Manufacturer: Eaton™ / Cutler Hammer™	



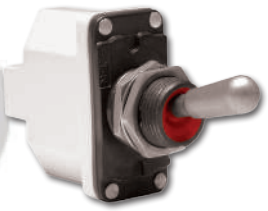


Part No.	8510K4
Toggle Switch	
Single Pole / Double Throw	
ON / NONE / ON	
Manufacturer: Eaton™ / Cutler Hammer™	



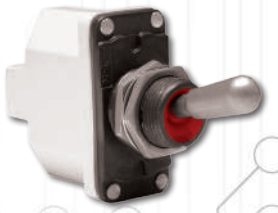


Part No.	8510K5
Toggle Switch	
Single Pole / Double Throw	
ON / NONE / MOMENTARY	
Manufacturer: Eaton™ / Cutler Hammer™	



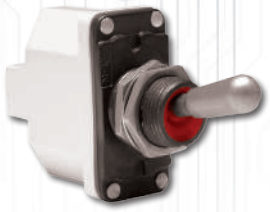


Part No.	8510K9
Toggle Switch	
Single Pole / Double Throw	
ON / NONE / OFF	
Manufacturer: Eaton™ / Cutler Hammer™	



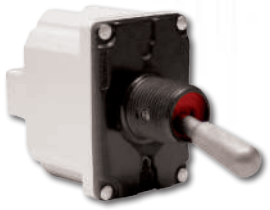


Part No.	8510K11
Toggle Switch	
Single Pole / Double Throw	
OFF / NONE / MOMENTARY	
Manufacturer: Eaton™ / Cutler Hammer™	



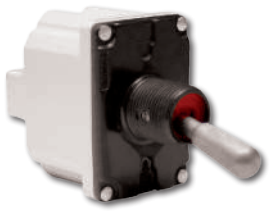


Part No.	8511K1
Toggle Switch	
Double Pole / Double Throw	
ON / OFF / ON	
Manufacturer: Eaton™ / Cutler Hammer™	

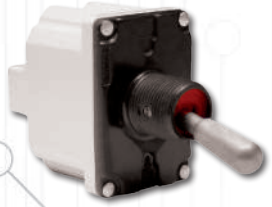




Part No.	8511K11
Toggle Switch	
Double Pole / Double Throw	
OFF / NONE / MOMENTARY	
Manufacturer: Eaton™ / Cutler Hammer™	

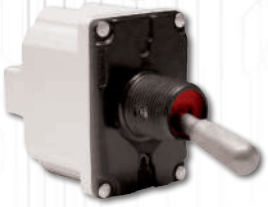






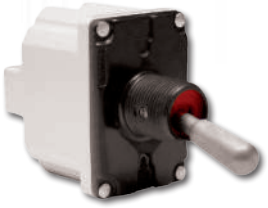
Part No.	8511K2
Toggle Switch	
Double Pole / Double Throw	
MOMENTARY / OFF / MOMENTARY	
Manufacturer: Eaton™ / Cutler Hammer™	





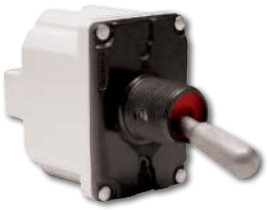
Part No.	8511K3
Toggle Switch	
Double Pole / Double Throw	
ON / OFF / MOMENTARY	
Manufacturer: Eaton™ / Cutler Hammer™	





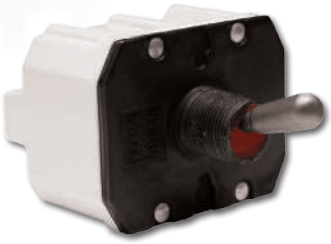
Part No.	8511K4
Toggle Switch	
Double Pole / Double Throw	
ON / NONE / ON	
Manufacturer: Eaton™ / Cutler Hammer™	





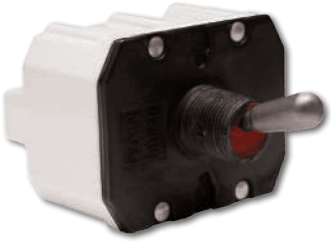
Part No.	8511K9
Toggle Switch	
Double Pole / Single Throw	
ON / NONE / OFF	
Manufacturer: Eaton™ / Cutler Hammer™	





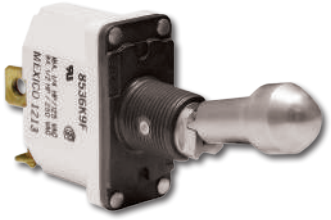
Part No.	8512K4
Toggle Switch	
Four Pole / Double Throw	
ON / NONE / ON	
Manufacturer: Eaton™ / Cutler Hammer™	





Part No.	8512K9
Toggle Switch	
Four Pole / Single Throw	
ON / NONE / OFF	
Manufacturer: Eaton™ / Cutler Hammer™	





Part No.	8536K9F
Toggle Switch	
Single Pole / Single Throw	
LOCKING	
Manufacturer: Eaton™ / Cutler Hammer™	



Toggle Switches

Honeywell™

NOTE: All switches are environmentally sealed. Contact rated @ 20A Resistive and 15A Inductive @ 28VDC. Momentary Contact rated @ 15A Resistive and 10A Inductive @ 28VDC.

Part No.	1TL1-1
Toggle Switch	
Single Pole / Double Throw	
ON / OFF / ON	
Manufacturer: Honeywell™	





Part No.	1TL1-2
Toggle Switch	
Single Pole / Single Throw	
ON / NONE / OFF	
Manufacturer: Honeywell™	





Part No.	1TL1-3
Toggle Switch	
Single Pole / Double Throw	
ON / NONE / ON	
Manufacturer: Honeywell™	



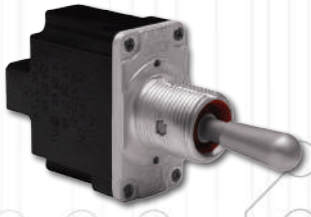


Part No.	1TL1-6
Toggle Switch	
Single Pole / Single Throw	
ON / NONE / MOMENTARY	
Manufacturer: Honeywell™	



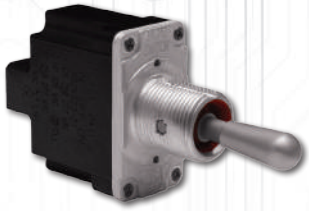


Part No.	1TL1-7
Toggle Switch	
Single Pole / Double Throw	
MOMENTARY / OFF / MOMENTARY	
Manufacturer: Honeywell™	



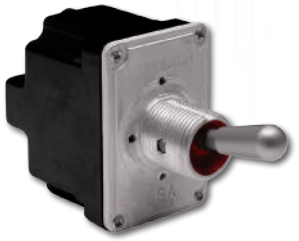


Part No.	1TL1-8
Toggle Switch	
Single Pole / Double Throw	
ON / NONE / MOMENTARY	
Manufacturer: Honeywell™	



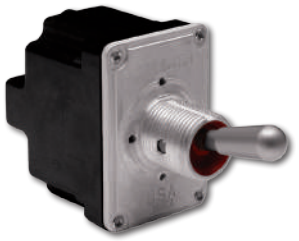


Part No.	2NT1-1
Micro Switch	
Manufacturer: Honeywell™	





Part No.	2NT1-2
Micro Switch	
Manufacturer: Honeywell™	

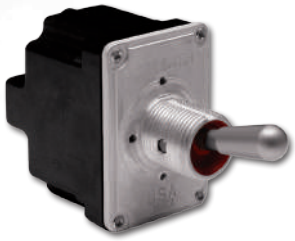






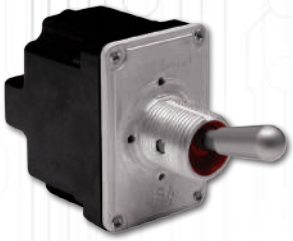
Part No.	2NT1-7
Toggle Switch	
Double Pole / Double Throw	
MOMENTARY / OFF / MOMENTARY	
Manufacturer: Honeywell™	





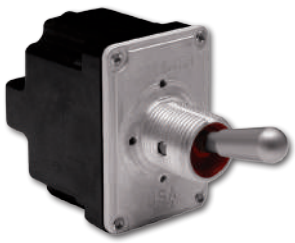
Part No.	2TL1-3
Toggle Switch	
Double Pole / Double Throw	
ON / NONE / ON	
Manufacturer: Honeywell™	





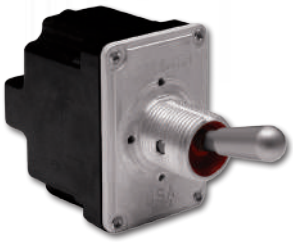
Part No.	2TL1-1
Toggle Switch	
Double Pole / Double Throw	
ON / OFF / ON	
Manufacturer: Honeywell™	





Part No.	2TL1-7
Toggle Switch	
Double Pole / Double Throw	
MOMENTARY / OFF / MOMENTARY	
Manufacturer: Honeywell™	





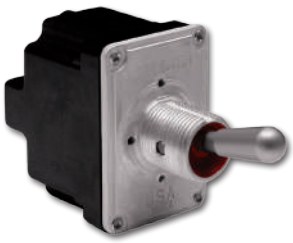
Part No.	2TL1-10A
Toggle Switch	
Double Pole / Double Throw	
ON / ON / ON	
Manufacturer: Honeywell™	





Part No.	4TL1-1
Toggle Switch	
Four Pole / Double Throw	
ON / OFF / ON	
Manufacturer: Honeywell™	





Part No.	2TL1-12
Toggle Switch	
Double Pole / Double Throw	
ON / ON / ON	
Manufacturer: Honeywell™	





Part No.	4TL1-3
Toggle Switch	
Four Pole / Double Throw	
ON / NONE / ON	
Manufacturer: Honeywell™	



Klixon Toggle Switches / Circuit Breakers

NOTE: Klixon ON / OFF toggle switches feature built-in circuit breaker protection and give the operator a visual indication that a circuit has been tripped. The manually resettable switches come in a variety of current ratings.

Part No.	SW-7270-1-7.5
Toggle Switch / Circuit Breaker	
Manual Reset	
7.5 AMP- OFF / ON	
Manufacturer: Klixon	
Part No.	**SW-7270-1-10**
Manual Reset	
10 AMP- OFF / ON	
Manufacturer: Klixon	
Part No.	**SW-7270-1-15**
Manual Reset	
15 AMP- OFF / ON	
Manufacturer: Klixon	
Part No.	**SW-7270-1-20**
Manual Reset	
20 AMP- OFF / ON	
Manufacturer: Klixon	
Part No.	**SW-7270-1-25**
Manual Reset	
25 AMP- OFF / ON	
Manufacturer: Klixon	
Part No.	**SW-7270-1-30**
Manual Reset	
30 AMP- OFF / ON	
Manufacturer: Klixon	
Part No.	**SW-7270-1-35**
Manual Reset	
35 AMP- OFF / ON	
Manufacturer: Klixon	
Part No.	**SW-7271-8-35**
Manual Reset	
35 AMP- OFF / ON	
Manufacturer: Klixon	





Push Button Switches

Otto™

Part No.	P1-32221
Push Button Switch	
Normally Closed	
MOMENTARY- RED	
Manufacturer: Otto™	

Part No.	P1-90235
Push Button Switch	
MOMENTARY- ON / BLUE	
Manufacturer: Otto™	



Part No.	P5-411221
Push Button Switch	
ALTERNATE ACTION- RED	
Manufacturer: Otto™	



Part No.	P5-D217221
Push Button Switch	
ALTERNATE ACTION- DOME RED	
Manufacturer: Otto™	



Many more styles, sizes and colors available!



Push Button Switches

C & K / NKK



Part No.	8551MZQE2
Push Button Switch	
NORMALLY OPEN	
MOMENTARY- 3 AMP	
Manufacturer: C & K	



Part No.	870-0349
Push Button Switch	
NORMALLY CLOSED	
MOMENTARY- BLACK	
Manufacturer: NKK	



Part No.	870-0487
Push Button Switch	
NORMALLY OPEN	
MOMENTARY- BLACK	
Manufacturer: NKK	

Poly Switches

Tyco™ / Raychem™



Part No.	91F55919
Poly Switch	
AMPS: 9	
SELF RESETTING	
Manufacturer: Tyco™ / Raychem™	



Part No.	BD280-1130-20
Poly Switch	
AMPS: 20	
Manufacturer: Tyco™ / Raychem™	



Part No.	BD280-1927-25
Poly Switch	
AMPS: 25	
Manufacturer: Tyco™ / Raychem™	



Part No.	BD280-1927-30
Poly Switch	
AMPS: 30	
Manufacturer: Tyco™ / Raychem™	

Relay Switches

Part No.	REL 1001
Relay Switch	
Single Pole / Double Throw	
AMPS: 20 / 30	
Type: Relay / Plug-In / Flange Mount	



Part No.	REL 1002
Relay Switch	
Single Pole / Double Throw	
AMPS: 20 / 30	
Type: Relay / with Resistor Supression	



Part No.	REL 1003
Relay Switch	
Single Pole / Double Throw	
AMPS: 20 / 30	
Type: Relay / Plug-In / Resistor Supression / Flange Mount	



Part No.	REL 1005
Connector	
Type: Relay / Plug-In	



Part No.	ST1/4-14-16
Spade Terminal	
Width (inches): .250	
Type: Female	
Wire Size: 16-14AWG	
Style: Non-Insulated	
Material: Tin-Plated Copper	



Part No.	ST1/4-10-12
Spade Terminal	
Width (inches): .250	
Type: Female	
Wire Size: 12-10AWG	
Style: Non-Insulated	
Material: Tin-Plated Copper	



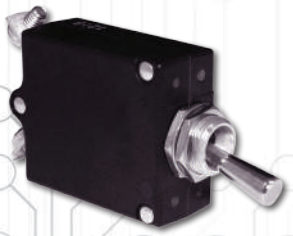
Solenoid Switches

Part No.	SS1040
Solenoid Switch	
12 Volt, Single Coil	
NORMALLY OPEN Relay with Silver Alloy Contacts	
Rated @ 100 AMPS Continuous / 200 AMPS in Rush Current	
13.2 OHMS Coil Resistance @ 25C	



Part No.	SS2060
Solenoid Switch	
12 Volt, Single Coil	
NORMALLY OPEN Relay with Silver Alloy Contacts	
Rated @ 200 AMPS Continuous / 600 AMPS in Rush Current	
21 OHMS Coil Resistance @ 25C	



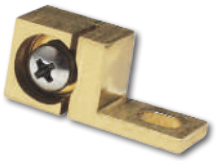


Circuit Breaker Switches

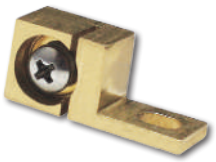
Tyco™ / Raychem™

Part No.	W31-X2M1G-20
Circuit Breaker Switch	
Manual Reset	
20 AMP- OFF / ON	
Manufacturer: Tyco™ / Raychem™	
Part No.	**SW-7270-1-10**
Manual Reset	
30 AMP- OFF / ON	
Manufacturer: Tyco™ / Raychem™	
Part No.	**SW-7270-1-15**
Manual Reset	
35 AMP- OFF / ON	
Manufacturer: Tyco™ / Raychem™	
Part No.	**SW-7270-1-20**
Manual Reset	
40 AMP- OFF / ON	
Manufacturer: Tyco™ / Raychem™	
Part No.	**SW-7270-1-25**
Manual Reset	
50 AMP- OFF / ON	
Manufacturer: Tyco™ / Raychem™	

Switch Accessories



Part No.	CBH-1068
Circuit Breaker Holder (SINGLE)	
Manufacturer: Brown & Miller Racing Solutions	



Part No.	CBH-1070
Circuit Breaker Holder (DOUBLE)	
Manufacturer: Brown & Miller Racing Solutions	

Part No.	BMRS-1041
Brass Buss Strip - Long Slots	
Manufacturer: Brown & Miller Racing Solutions	





Part No.	TSE-Black
Toggle Switch Extension	
Color: Black	
SELF RESETTING	
Manufacturer: Cole Hersee	



Part No.	TSE-Red
Toggle Switch Extension	
Color: Red	
SELF RESETTING	
Manufacturer: Cole Hersee	



Part No.	TSE-White
Toggle Switch Extension	
Color: White	
SELF RESETTING	
Manufacturer: Cole Hersee	



Part No.	S-CAP-187-0
Switch Cap	
Stock Cap	
Color: Black	



Part No.	S-CAP-187-2
Switch Cap	
Stock Cap	
Color: Red	



Part No.	S-CAP-187-4
Switch Cap	
Stock Cap	
Color: Yellow	



Part No.	S-CAP-187-5
Switch Cap	
Stock Cap	
Color: Green	



Part No.	S-CAP-187-6
Switch Cap	
Stock Cap	
Color: Blue	



Part No.	S-CAP-187-9
Switch Cap	
Stock Cap	
Color: White	

Master Disconnect Switches

Part No.	MD-1
Master Disconnect Switch	
Housing: Metal	
Contacts: Silver (2)	
Rated: 180 amps nominal / 375 amps surge @ 2 minutes / 800 amps surge @ 15 seconds	





Part No.	MD-2
Master Disconnect Switch (Removable Key)	
Housing: Plastic	
Contacts: Silver (2)	
Rated: 100 amps nominal	





Part No.	MD-5
Master Disconnect Switch (Removable Key)	
Housing: Plastic	
Contacts: Silver (3)	
Rated: 150 amps nominal	

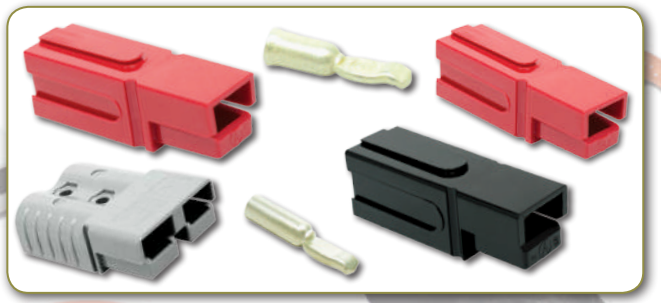




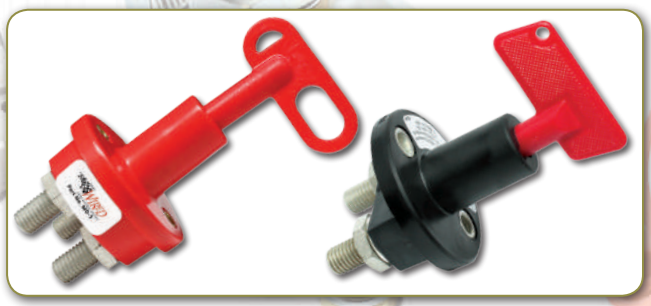
NOTE: The MD-5 Master Disconnect Switch provides 2 separate output terminals. This allows the alternator current to be isolated from the accessories and the ignition system, preventing the engine from running on after the switch is turned off.



Battery Plug Kits



Two and Single Pole Plugs



Master Disconnect Switches



Battery Selector Switches



Junction Blocks

Battery Plug Kits

NOTE: Battery Plugs are available as kits that contain (1) 2 Pole Housing and (2) contacts, as well as, kits that contain (1) 3 Pole Housing and (3) contacts.

Part No.	BP50-10-12
Battery Plug Kit	
Kit Contains: BP50 & (2) C50-10-12	
Current Amp Rating: 50	



Part No.	BP50-8
Battery Plug Kit	
Kit Contains: BP50 & (2) C50-8	
Current Amp Rating: 50	



Part No.	BP50-6
Battery Plug Kit	
Kit Contains: BP50 & (2) C50-6	
Current Amp Rating: 50	



Part No.	BP120-6
Battery Plug Kit	
Kit Contains: BP120 & (2) C120-6	
Current Amp Rating: 120	



Part No.	BP120-4
Battery Plug Kit	
Kit Contains: BP120 & (2) C120-4	
Current Amp Rating: 120	



Part No.	BP120-2
Battery Plug Kit	
Kit Contains: BP120 & (2) C120-2	
Current Amp Rating: 120	



Part No.	BP175-4
Battery Plug Kit	
Kit Contains: BP175 & (2) C175-4	
Current Amp Rating: 175	



Part No.	BP175-2
Battery Plug Kit	
Kit Contains: BP175 & (2) C175-2	
Current Amp Rating: 175	



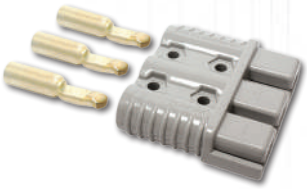
Part No.	BP175-1/0
Battery Plug Kit	
Kit Contains: BP175 & (2) C175-1/0	
Current Amp Rating: 175	



Part No.	BP175-3
Battery Plug Housing	
3 Position Housing	
Current Amp Rating: 175	



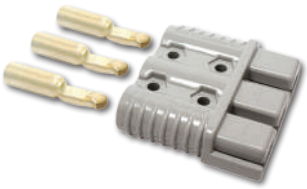
Part No.	BP175-3-4
Battery Plug Kit	
Kit Contains: BP175-3 & (3) C175-4	
Current Amp Rating: 175	



Part No.	BP175-3-2
Battery Plug Kit	
Kit Contains: BP175-3 & (3) C175-2	
Current Amp Rating: 175	



Part No.	BP175-3-1/0
Battery Plug Kit	
Kit Contains: BP175-3 & (3) C175-1/0	
Current Amp Rating: 175	



Two Pole Plugs

NOTE: The rugged genderless design of these connectors makes them a long time standard battery plug in the racing industry.



Part No.	BP50
Two Pole Plug	
Current Amp Rating: 50	



Part No.	BP120
Two Pole Plug	
Current Amp Rating: 120	



Part No.	BP175
Two Pole Plug	
Current Amp Rating: 175	

Single Pole Plugs

NOTE: The rugged genderless design of these connectors makes them a long time standard battery plug in the racing industry.



Part No.	PP120-2
Single Pole Plug	
Current Amp Rating: 120	
Color: Red	



Part No.	PP120-0
Single Pole Plug	
Current Amp Rating: 120	
Color: Black	



Part No.	PP175-2
Single Pole Plug	
Current Amp Rating: 180	
Color: Red	

Part No.	PP175-0
Single Pole Plug	
Current Amp Rating: 180	
Color: Black	



Battery Plug Contacts

Part No.	C50-10-12
Battery Plug Contact	
Fits Housing Numbers: BP50	
Wire Gauge Range: 10-12 AWG	



Part No.	C50-8
Battery Plug Contact	
Fits Housing Numbers: BP50	
Wire Gauge Range: 8 AWG	



Part No.	C50-6
Battery Plug Contact	
Fits Housing Numbers: BP50	
Wire Gauge Range: 6 AWG	



Part No.	C120-6
Battery Plug Contact	
Fits Housing Numbers: PP120 & BP120	
Wire Gauge Range: 6 AWG	



Part No.	C120-4
Battery Plug Contact	
Fits Housing Numbers: PP120 & BP120	
Wire Gauge Range: 6 AWG	



Part No.	C120-2
Battery Plug Contact	
Fits Housing Numbers: PP120 & BP120	
Wire Gauge Range: 2 AWG	



Part No.	C175-4
Battery Plug Contact	
Fits Housing Numbers: PP175 & BP175	
Wire Gauge Range: 4 AWG	



Part No.	C175-2
Battery Plug Contact	
Fits Housing Numbers: PP175 & BP175	
Wire Gauge Range: 2 AWG	



Part No.	C175-1/0
Battery Plug Contact	
Fits Housing Numbers: PP175 & BP175	
Wire Gauge Range: 1/0 AWG	

Master Disconnect Switches

Part No.	MD-1
Master Disconnect Switch	
Housing: Metal	
Contacts: Silver (2)	
Rated: 180 amps nominal / 375 amps surge @ 2 minutes / 800 amps surge @ 15 seconds	





Part No.	MD-2
Master Disconnect Switch (Removable Key)	
Housing: Plastic	
Contacts: Silver (2)	
Rated: 100 amps nominal	





Part No.	MD-5
Master Disconnect Switch (Removable Key)	
Housing: Plastic	
Contacts: Silver (3)	
Rated: 150 amps nominal	





NOTE: The MD-5 Master Disconnect Switch provides 2 separate output terminals. This allows the alternator current to be isolated from the accessories and the ignition system, preventing the engine from running on after the switch is turned off.

Battery Selector Switches

Part No.	BS-9001E
Battery Selector Switch	
Rated @ 300 mps continuous (UL 1107) and 600 Amps intermittent current.	
Switch: "A" to "B" or "A" and "B"	
Case Design: Surface or Rear Panel Mounting	





Part No.	BS-6007M
m-Series Mini Selector Battery Switch	
Rated @ 300 mps continuous (UL 1107) and 500 Amps intermittent current.	
Switch: "A" to "B" or A" and "B"	
Case Design: Surface or Rear Panel Mounting • 32V DC Maximum Voltage • 2 Battery inputs • 0.77lb (0.35 kg) • 4 Switch Positions • Continuous Rating of 300A. Intermittent Rating of 500A (5 minutes) • 10 Second Cranking Rating of 1500A. 1 Minute Cranking Rating of 775A • 4/0 AWG (120mm²) Cable size to meet ratings • 1.12in (28.45 mm) Clearance For 4/0 AWG Cables • Terminal stud size 3/8”-16 (M10) • Terminal Stud Torque 120 in-lb (13.56 Nm)	





Junction Blocks

NOTE: BMRS WIRED will custom build Battery Cables to your specifications. Simply send us the length, wire type and size, color and ring terminal sizes. We will build the assembly using our in-house crimp presses for the perfect fitting cable. Be sure to check out our Terminal Hardware and Heavy Gauge Wire sections.



Part No.	MD-DP-1/4-0
Junction Block	
Size: 1/4-16 TPI	
Single Stud Pass-Through	
Glass Filled Nylon Body	
Color: Black	



Part No.	MD-DP-1/4-2
Junction Block	
Size: 1/4-16 TPI	
Single Stud Pass-Through	
Glass Filled Nylon Body	
Color: Red	



Part No.	MD-DP-3/8-0
Junction Block	
Size: 3/8-16 TPI	
Single Stud Pass-Through	
Glass Filled Nylon Body	
Color: Black	



Part No.	MD-DP-3/8-2
Junction Block	
Size: 3/8-16 TPI	
Single Stud Pass-Through	
Glass Filled Nylon Body	
Color: Red	



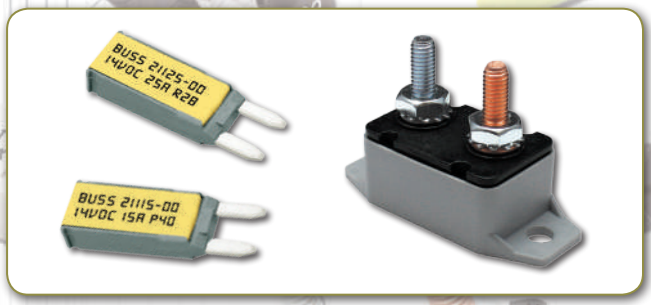
Part No.	MD-SP-3/8-0
Junction Block	
Size: 3/8-16 TPI	
Single Stud Non-Feed Through	
Glass Filled Nylon Body	
Color: Black	



Part No.	MD-SP-3/8-2
Junction Block	
Size: 3/8-16 TPI	
Single Stud Non-Feed Through	
Glass Filled Nylon Body	
Color: Red	



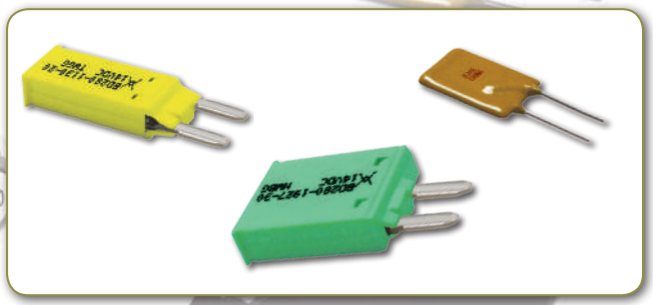
Part No.	MD-SP-5/16-0
Junction Block	
Size: 5/16-16 TPI	
Single Stud Non-Feed Through	
Glass Filled Nylon Body	
Color: Black	



Self Resetting Circuit Breakers



Manually Operated Circuit Breakers



Poly Switches Tycho™ / Raychem™

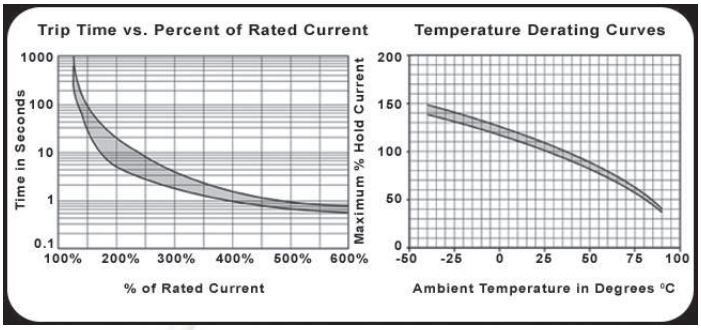
Self Resetting Circuit Breakers

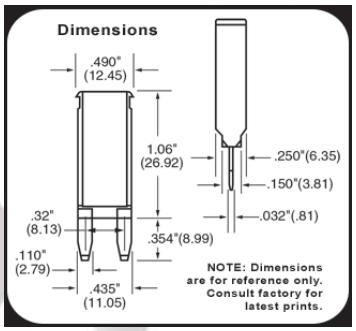
21X Mini-Circuit Breakers
(Auto & Modified Reset)

Operating Temperature Range: -40°F (-40°C) to 185°F (85°C).

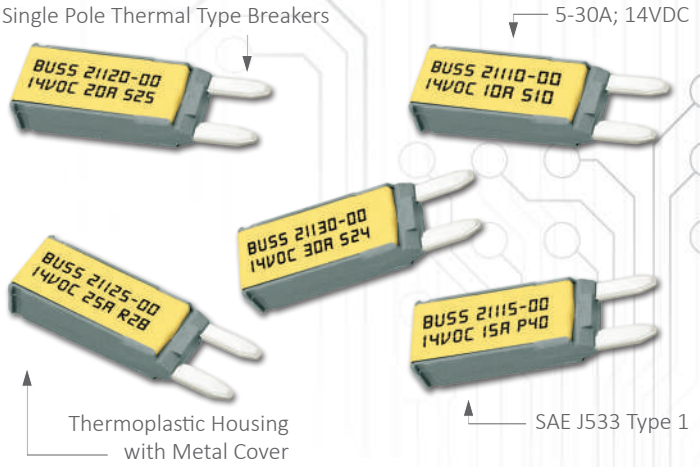
Storage Temperature Rating: -40°F (-40°C) to 260°F (125°C).

Product Specifications	
Rating:	5-30A; 14VDC
Interrupt Rating:	150A @ 14VDC (5-10A versions); 225A @ 14VDC (15A version); 300A @ 14VDC (20A version); 450A @ 14VDC (25-30A versions).
Materials:	Grey UL-Rated 94V-0 thermoplastic housing with metal cover: gold (Type I) or silver (Type II).
Marking:	Standard marking includes amp/voltage ratings, part number, and date code. OCR marking is available. Termination: Compatible with 280 Type fuse blocks using 0.32in. (8.1mm) centerline spacing.
Compliances:	SAE J553 Type I and Type II Circuit Breakers.





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21X Mini-Circuit Breakers

NOTE: Blade style mini-circuit breakers conform to SAE specification J553 Type 1 and continuously reset until the overload condition is corrected.

Part No.	CBM-10
21X Mini Circuit Breaker	
Trip Current (AMPS): 10	
SELF RESETTING	



Part No.	CBM-15
21X Mini Circuit Breaker	
Trip Current (AMPS): 15	
SELF RESETTING	



Part No.	CBM-20
21X Mini Circuit Breaker	
Trip Current (AMPS): 20	
SELF RESETTING	



Part No.	CBM-25
21X Mini Circuit Breaker	
Trip Current (AMPS): 25	
SELF RESETTING	

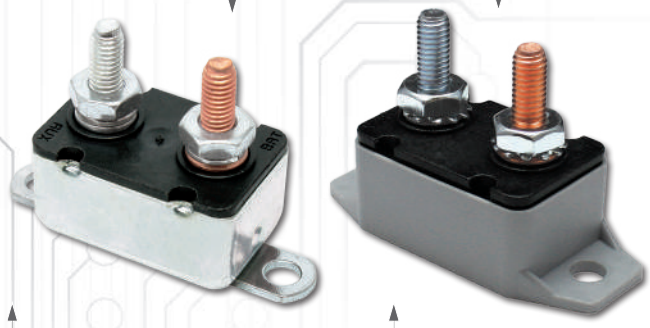


Part No.	CBM-30
21X Mini Circuit Breaker	
Trip Current (AMPS): 30	
SELF RESETTING	



Single Pole Thermal Type Breakers

5-50A; 14VDC
28 VDC



Thermoplastic Housing with Metal Housing

Gray Thermoplastic Housing

12X Shortstop® Circuit Breakers

NOTE: These in-line circuit breakers are available both in metal and plastic and conform to SAE specifications J553 Type 1. They continuously reset until the overload condition is corrected.



Part No.	CB-10P
Series 12X Shortstop Circuit Breaker	
Trip Current (AMPS): 10	
SELF RESETTING	
Housing: Plastic	



Part No.	CB-15P
Series 12X Shortstop Circuit Breaker	
Trip Current (AMPS): 15	
SELF RESETTING	
Housing: Plastic	



Part No.	CB-15
Series 12X Shortstop Circuit Breaker	
Trip Current (AMPS): 15	
SELF RESETTING	
Housing: Metal	



Part No.	CB-20P
Series 12X Shortstop Circuit Breaker	
Trip Current (AMPS): 20	
SELF RESETTING	
Housing: Plastic	

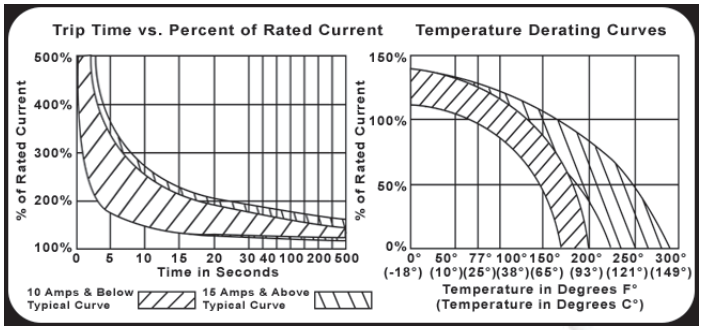
Series 12X Shortstop® Circuit Breakers

(Auto, Manual & Modified Reset)

Operating Temperature Range: -40°F (-40°C) to 185°F (85°C).

Storage Temperature Rating: -40°F (-40°C) to 260°F (125°C).

Product Specifications	
Rating:	5-50A, 14VDC; 28VDC (Series 123, 124, & 125).
Interrupt Rating:	Main Circuit Protection: 1.5kA @ 12VDC (Series 193 w/ plastic cover); Branch Circuit Protection: 2.5kA @ 12VDC (Series 121 & 124 -01 sealed & Series 123 w/plastic cover).
Materials:	Black UL-Rated thermoplastic body (thermoset for Type II body & buttons); Cover is gray thermoplastic or steel- Type I gold, Type II silver.
Marking:	Custom marking available. Consult factory for options.
Termination:	#10-32 thread and quick-connect options available.
Torque Rating:	24in-lb (2.7Nm) Max.
Mounting Torque Rating:	Plastic cover - 15in-lb (1.7Nm); Metal cover - 30in-lb (3.4Nm).
Ingress Protection Rating:	IP66 on plastic cover version only (except for terminals).
Compliances:	SAE J553 Type I and Type II Circuit Breakers.



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Part No.	CB-20
Series 12X Shortstop Circuit Breaker	
Trip Current (AMPS): 20	
SELF RESETTING	
Housing: Metal	



Part No.	CB-25P
Series 12X Shortstop Circuit Breaker	
Trip Current (AMPS): 25	
SELF RESETTING	
Housing: Plastic	



Part No.	CB-25
Series 12X Shortstop Circuit Breaker	
Trip Current (AMPS): 25	
SELF RESETTING	
Housing: Metal	



Part No.	CB-30
Series 12X Shortstop Circuit Breaker	
Trip Current (AMPS): 30	
SELF RESETTING	
Housing: Metal	



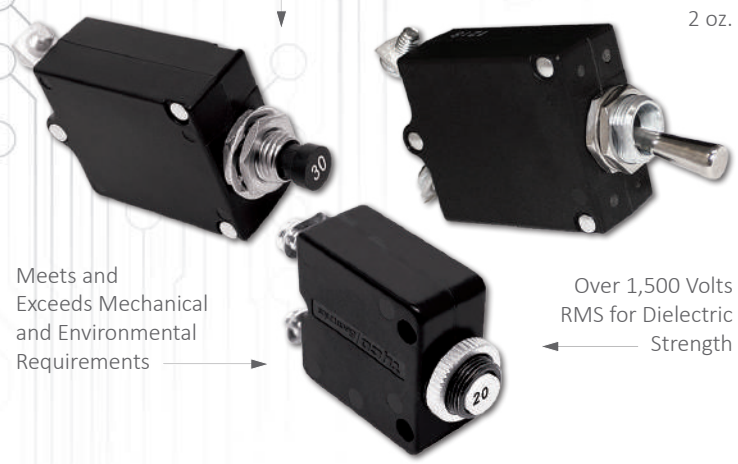
Part No.	CB-40
Series 12X Shortstop Circuit Breaker	
Trip Current (AMPS): 40	
SELF RESETTING	
Housing: Metal	



Manually Operated Circuit Breakers

Continuously Carries 100% of Rating of Calibration

Average Weight is Less than 2 oz.



Meets and Exceeds Mechanical and Environmental Requirements

Over 1,500 Volts RMS for Dielectric Strength

Thermal P&B Circuit Breakers

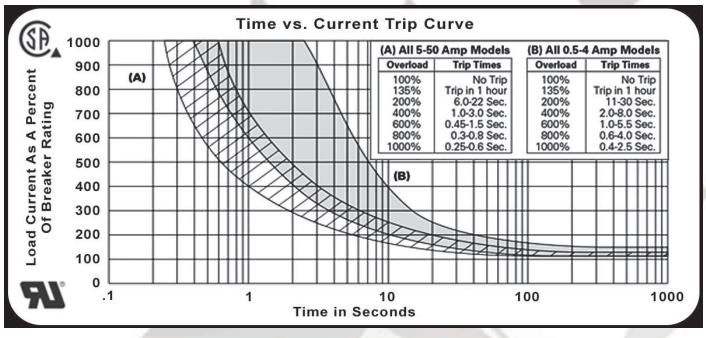
Features:

- 0.5 Amp to 50 Amp Ratings May be Used as On/Off Switch
- Cannot be Reset Against Overload
- W23 Has Visible Trip Indicator Band
- Screw Termination
- Trip-Free Operation

Electrical Data @ +25°C	
Calibration:	Will continuously carry 100% of rating, may trip between 101% and 134% of rating at 25°C. Must trip at 135% in one hour.
Maximum Operating Voltages:	50VDC or 240VAC (to 400 Hz)
Interrupting Capacity:	With 4X Max. Series Fuse Protection: 0.5-50 amp models — 1000 amps at 240VAC. 30-50 amp models — 1000 amps at 50VDC
	Without 4X Max. Series Fuse Protection: 0.5-25 amp models — 2000 amps at 50VDC. 10-20 amp models — 2000 amps at 120VAC
Resettable Overload Capacity:	Ten times rated current.
Dielectric Strength:	Over 1,500 volts RMS

Mechanical / Environmental Data	
Endurance Cycling:	More than 6,000 cycles at 100% of rating, or 10,000 mechanical cycles.
Humidity:	Will meet requirements of MIL-STD-202, Method 106.
Salt Spray:	Will meet requirements of MIL-STD-202, Method 101, Test Condition B.
Termination:	Two #8-32 screw terminals.
Mounting:	W23 — Threaded bushing, 3/8" (9.53mm) diameter. W31 — Threaded bushing, 15/32" (11.91mm) diameter, with or without anti-rotation flats.
Weight:	Less than 2 oz. (57g).

Maximum Resistance vs. Current Rating @ +25°C	
Current Rating in Amps	Maximum Resistance in Ohms ± 30%
1	.61
5	.03
10	.01
15	.006
20	.004
30	.003
40	.002
50	.002



Push/Pull Circuit Breakers

NOTE: Manual circuit breakers give a visual indication when they are tripped. The operator must manually reset the circuit. WIRED carries circuit breakers with either push button or toggle type actuators.



Part No.	W23X1A1G20
Circuit Breaker	
Trip Current (AMPS): 20	
MANUALLY OPERATED	
Actuator Type: PUSH / PULL	



Part No.	W23X1A1G30
Circuit Breaker	
Trip Current (AMPS): 30	
MANUALLY OPERATED	
Actuator Type: PUSH / PULL	



Part No.	W58-XC4C12A-15
Circuit Breaker	
Trip Current (AMPS): 15	
MANUALLY OPERATED	
Actuator Type: PUSH	

NOTE: Cannot be manually tripped.

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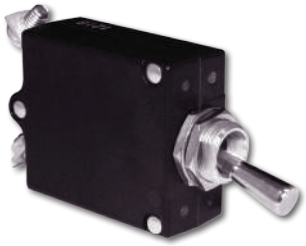
Part No.	W58-XC4C12A-20
Circuit Breaker	
Trip Current (AMPS): 20	
MANUALLY OPERATED	
Actuator Type: PUSH	

NOTE: Cannot be manually tripped.



Part No.	W58-XC4C12A-30
Circuit Breaker	
Trip Current (AMPS): 30	
MANUALLY OPERATED	
Actuator	

NOTE: Cannot be manually tripped.



Part No.	W31-X2M1G-20
Circuit Breaker	
Trip Current (AMPS): 20	
MANUALLY OPERATED	
Actuator Type: TOGGLE	
Part No.	**W31-X2M1G-30**
Trip Current (AMPS): 30	
MANUALLY OPERATED	
Actuator Type: TOGGLE	
Part No.	**W31-X2M1G-35**
Trip Current (AMPS): 35	
MANUALLY OPERATED	
Actuator Type: TOGGLE	
Part No.	**W31-X2M1G-40**
Trip Current (AMPS): 40	
MANUALLY OPERATED	
Actuator Type: TOGGLE	
Part No.	**W31-X2M1G-50**
Trip Current (AMPS): 50	
MANUALLY OPERATED	
Actuator Type: TOGGLE	

Poly Switches

Tyco™ / Raychem™



Part No.	91F55919
Poly Switch	
AMPS: 9	
SELF RESETTING	
Manufacturer: Tyco™ / Raychem™	



Part No.	BD280-1130-20
Poly Switch	
AMPS: 20	
Manufacturer: Tyco™ / Raychem™	



Part No.	BD280-1927-25
Poly Switch	
AMPS: 25	
Manufacturer: Tyco™ / Raychem™	



Part No.	BD280-1927-30
Poly Switch	
AMPS: 30	
Manufacturer: Tyco™ / Raychem™	

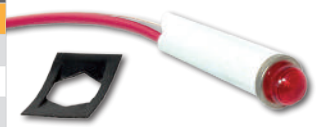


Panel Mounted LED's

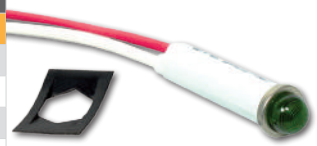
Lamps & LED's

NOTE: In the world of High Performance Racing it is critical that the driver be aware of certain conditions within the vehicle. LED lights are an effective tool in providing input while allowing the driver to spend more time focusing on the track and less time looking inside the cockpit. A variety of 12V Panel Mount LED styles and colors are available.

Part No.	2191U1-12V
Panel Mounted LED	
Color: Red	
Bezel: Chrome	
Hole Size (inches): 5/16"	
Mounting Style: PUSH ON SPEED NUT	



Part No.	2191U5-12V
Panel Mounted LED	
Color: Green	
Bezel: Chrome	
Hole Size (inches): 5/16"	
Mounting Style: PUSH ON SPEED NUT	



Part No.	2191U7-12V
Panel Mounted LED	
Color: Yellow	
Bezel: Chrome	
Hole Size (inches): 5/16"	
Mounting Style: PUSH ON SPEED NUT	



Part No.	192A0250
Panel Mounted LED	
Color: Red	
Bezel: Chrome	
Hole Size (inches): 9/16"	
Mounting Style: PANEL NUT	



Part No.	192A0252
Panel Mounted LED	
Color: Yellow	
Bezel: Chrome	
Hole Size (inches): 9/16"	
Mounting Style: PANEL NUT	



Part No.	192A0257
Panel Mounted LED	
Color: Blue	
Bezel: Chrome	
Hole Size (inches): 9/16"	
Mounting Style: PANEL NUT	



Part No.	192A0251
Panel Mounted LED	
Color: Green	
Bezel: Chrome	
Hole Size (inches): 9/16"	
Mounting Style: PANEL NUT	



Part No.	192A025W
Panel Mounted LED	
Color: White	
Bezel: Chrome	
Hole Size (inches): 9/16"	
Mounting Style: PANEL NUT	



Part No.	LED-002
Panel Mounted LED	
Color: Red	
Bezel: Black	
Hole Size (inches): 5/8"	
Mounting Style: PANEL NUT	

Part No.	LED-005
Color: Green	
Bezel: Black	
Hole Size (inches): 5/8"	
Mounting Style: PANEL NUT	

Part No.	LED-004
Color: Green	
Bezel: Black	
Hole Size (inches): 5/8"	
Mounting Style: PANEL NUT	

Part No.	LED-006
Color: Blue	
Bezel: Black	
Hole Size (inches): 5/8"	
Mounting Style: PANEL NUT	

Part No.	LED-009
Color: White	
Bezel: Black	
Hole Size (inches): 5/8"	
Mounting Style: PANEL NUT	





Crimping Tools



Contact Removal Tools



Crimp Tools

NOTE: Producing top quality work depends on using the proper tools. All of our hand crimp tools are ratcheting, ensuring that a proper crimp has been produced before the tool will release.

Part No.	12039500
Delphi Metri-Pack Crimp Tool	
Accepts 22AWG thru 16AWG wire.	



Part No.	RT-Tool
Crimp Tool	
A crimp tool that is ideal for use with steel ring terminals. The ratcheting design applies the extra force necessary for crimp steel terminals. It also works great with non-insulated splices and brazed seam non-insulated terminals.	
Accepts 18AWG thru 8AWG wire.	



Part No.	12014254
Delphi Weather Pack Crimp Tool	
Accepts 20AWG thru 14AWG wire.	



Part No.	AD-1377
Crimp Tool	
This crimp tool meets mil spec M22520/37-01. It is a ratcheting crimp tool designed for Raychem D436-36, 37, & 38 splices.	
Accepts 26AWG thru 12AWG wire.	



Part No.	W-HTR-2262-A
Crimp Tool	
A crimp tool that works with contact part numbers AMG-794606-1, 12089290 and 12064971 which are commonly used for electric gauges and sending units.	
Accepts 30AWG thru 22AWG wire.	



Part No.	12085271
Delphi Crimp Tool	
This 2 step crimper is ideal for use on core wiring for Metri Pack 150 and 280 series contacts. The ratcheting design provides for an ideal crimp.	



Part No.	M22520/2-01
DMC Miniature Adjustable Crimp Tool	
This crimp tool is designed for most of the miniature and sub-miniature connector types that are widely used in electronic systems. It meets the need for a miniature tool accommodating wire sizes 20 through 32 AWG. The crimper gives a Mil- Standard 8 impression crimp, which assures maximum tensile strength. The precision ratchet assures consistently accurate crimps every time. It has a built-in 8 step selector knob for dialing the correct crimp depth setting for the wire being used. Made for use with a wide variety of positioners required for specific contacts. Please call for more information.	



Part No.	HDT-48-00
Deutsch Crimp Tool	
Designed fro use with all size 20, 16 and 12 solid contacts.	
Accepts 12AWG thru 20AWG wire.	



Part No.	HDT-04-08
Deutsch Heavy-Duty Crimp Tool	
Designed for size 8 and 4 contacts. This non-ratcheting crimp tool is recommended for field service only.	

Note: *Please contact us for additional information.*



Part No.	
Contact Retention ToolS	
These tools are designed to check that retention of contacts in connectors meet specifications.	

Note: *Call for your specific application.*







Part No.	HDP-400
Pneumatic Power Crimp Tool	
Can be used with a variety of crimp die sets covering the complete range of Deutsch solid contacts and many other contact styles. Custom die sets can also be used with an optional foot pedal actuator (Part# HDP-400-104).	

Note: *Crimp die sets sold separately.*

Note: *Please contact us for additional information.*



Contact Removal Tools

Part No.	DT/RT1
Deutsch Contact Removal Tool	
For: All DT, DTM, and DTP Series	



Part No.	0411-240-2005
Deutsch Contact Removal Tool	
Size: 20	
For: HDP20, HD30	



Part No.	0411-310-1605
Deutsch Contact Removal Tool	
Size: 16	
For: HD10, HDP20, HD30	



Part No.	114010
Deutsch Contact Removal Tool	
Size: 12	
For: HD10, HDP20, HD30 & DTHD Series	



Part No.	114008
Deutsch Contact Removal Tool	
Size: 8	
For: HD10, HDP20, HD30 & DTHD Series	



Part No.	114009
Deutsch Contact Removal Tool	
Size: 4	
For: HD10, HDP20, HD30 & DTHD Series	



Part No.	421
Delphi Weather Pack Contact Removal Tool	



Part No.	12094430
Delphi Weather Pack Contact Removal Tool	



Part No.	AMG-843996-6
Contact Removal Tool	
A contact removal tool for use with Metri Pack connectors typically used to connect to both Autometer™ and Spek™ gauges.	



Part No.	610136
Deutsch Contact Removal Tool	
For: Autosport ASHD Series	



Polymide Tape (Kapton – TM – Tape)



Polyolefin Hot-Melt Adhesive Tape



Two-Part Epoxy

Polyimide Tape (Kapton – TM – Tape)

Available sizes: 1/4", 1/2", 3/4", 3/8", 1, 1-1/4", 1-1/2" and 2"

Electrical grade Polyimide with pre-cured pressure sensitive silicone adhesive film is designed to operate at elevated temperatures higher than polyester. This heat-stabilized film surpasses the dimensional stability of polyester.



Performance	Typical Values
General	
Color	Amber
Material	Polyimid
Adhesive	Silicon
Film Thickness	1 mil or 0.025 mm
Total Thickness	2.5 mil or 0.06 mm
Length	36 Yards or 33m
Width	19.68 Inch or 500 mm
Physical Properties	
Adhesion to Steel	1.3-1.5 lbs. / inch or 0.6-0.7 kg / 25mm
Tensile Strength	22-29 lbs. / inch or 10-13 kg / 25mm
Elongation @ Break (%)	>- 40%
Electrical Resistance	
Voltage Resistance	6 KV
Surface Resistance	>- 1.0* 10 to the 13th
Dielectric Modulus	>- 3-4 10 to the 6th Hz
Medium Loss Factor	>- 1.0* 10-3 10 to the 6 Hz
Temperature Resistance	
Temperature	500°F- 260°C
Resistance to: Acids, Oils, Solvents	Excellent

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Polyimide Tape (Sold Per Roll)

Size/Color	Part No.
Polyimide Tape (Kapton – TM – Tape)	
Diameter (inches): 1/8" (3.17mm) 2.5 mil	**KT-2**
Diameter (inches): 1/4" (6.35mm) 2.5 mil	**KT-4**
Diameter (inches): 3/8" (9.52mm) 2.5 mil	**KT-6**
Diameter (inches): 1/2" (12.7mm) 2.5 mil	**KT-8**

Polyolefin Hot-Melt Adhesive tape

S-1030 Polyolefin Hot-Melt Adhesive

Excellent Water Blocking.



Low Temperature.

Polyolefin Hot-Melt Adhesive (Sold Per Roll)

Size/Color	Part No.
Polyimide Tape (Kapton – TM – Tape)	
Self Amalgamating Tape	**S-1030**
Diameter (mm): 19mm x 0.25mm x 10m	

Product Characteristics	
Precoat designation	/180
Type	Polyolefin Hot-Melt Adhesive
Operating Temperature Range	-80°C to 80°C [-112°F to 176°F]
Bonding Temperature	120°C [248°F]
Minimum shelf life at or below 25°C	4 years
Specification	RK-6017, RT-1050/6

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Two-Part Epoxy

RT125 Flexible High Performance Epoxy Adhesive

RT125 is the industry standard adhesive for high performance cable harness assemblies.

Excellent Flexibility Giving High Shear and Peel Strengths.

Will operate up to 150°C.



Outstanding Chemical and Fluid Resistance.

Will Also Bond Metals, Glass, Wood, Rubbers and Many Plastics.

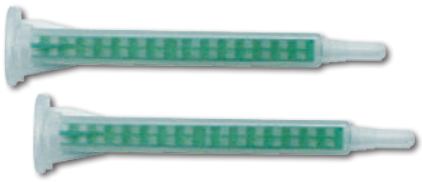
Typical Curing Properties	
Work Life at 23°C:	90 Minutes
Time to Handling at 23°C:	24 Hours
Time to Full Cure at 23°C:	7 Days
Time to Full Cure at 85°C:	2 Hours

Typical Performance (Measurements at 23°C)	
Lap Shear (Al / Al):	20 MPa
Peel Strength (XLPE/XLPE):	370 N / 25mm
Peel Strength after Thermal Shock (4hrs@215°C):	370 N / 25mm
Dynamic Shear (Backshell/Boot/Cable. Shell Size 22):	520 N
Solvent Resistance: (De-Icing Fluid, Petrol, Lubricating Oil, Hydraulic Fluid)	Excellent
Operating Temperature:	-75°C to +150°C
Conforms to the requirements of VG95343 Pt 15 and BS G 198 Part 5.	

NOTE: The information contained on this page is supplied by the manufacturer and is believed to be the most recent and reliable information available. BMRS WIRED is not responsible nor liable for the information and test results received by the manufacturer of these products.



Adhesive (Shown)



Nozzles (Shown)



Dispenser (Shown)

Two-Part Epoxy (Sold Per Kit)

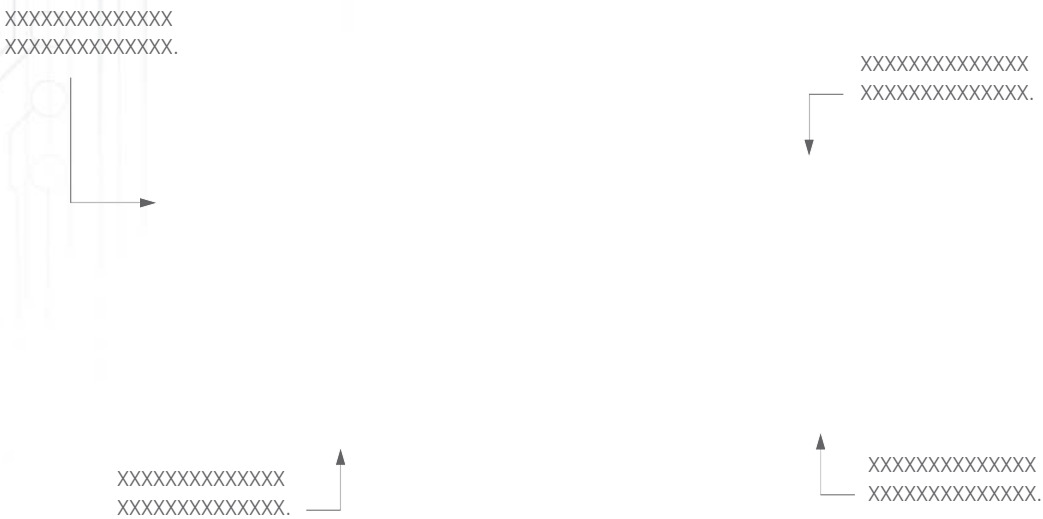
Part No.	RT125-DS-05
RT125 Two-Part Epoxy Kit	
Two-Part General Purpose Adhesive	
Duo-Syringe: 50m	
Color: Black	
Part No.	**RT-Nozzle-5**
Mixing Nozzles	
5mm	
Part No.	**RTG-050**
Application Gun Dispenser	
050 (1:1)	

Two-Part Epoxy

S1125 Adhesive Technical Information

S1125 is a flexible two part epoxy adhesive available in a range of kit formats. The duo-syringe, applicator and mixing nozzle provide an easy to use system, that requires no mixing, can be used again, if re-sealed after use, ensuring minimal waste.

Operating Temperature: -55ºC to +150ºC



Features & Benefits
• Easy to Use, No Mixing Required and Less Waste
• Can be Applied Directly to the Application
• Once Mixed the Adhesive Has a 1 to 2hr Pot Life at Room Temperature
• Suitable for Use With a Wide Range of Materials and Applications

Typical Properties			
		Performance	Test Method
Mechanical	Lap Shear Strength		--
	Aluminum to Aluminum	7KN	--
	DR-25 to DR -25-25 to -25	400N 380N	RK6619 Clause 2.1
	Peel Strength Aluminum to DR-25	100N	RK6619 Clause 2.2
Thermal	Lap Shear Strength	--	--
	Aluminum to Aluminum	--	--
	@ -40°C	6.5KN	RK6619 Clause 2.1
	@ +100°C	200N	
	@ +150°C	1500N	
Chemical	Fluid Resistance	Excellent	Lap Shear Strength after immersion in fluid for 24 hours @ +70°C
	ISO1817	Excellent	
	Lubricating Oil O-149	Excellent	
	Hydraulic Fluid H-515	Excellent	
	Diesel Fuel F--54	Excellent	
	Water	Excellent	
Specifications	Raychem RK6619		

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XXXXXX
(Shown)

Two-Part Epoxy (Sold Per Kit)

Part No.	S1125-KIT-1
S1125 Adhesive Two Par Epoxy - Kit 1	
Flexible Two-Part Epoxy Adhesive Includes:	
• 5 x 10g packs	
• 5 Mixing Cups	
• Sticks	
• Adhesive Strips	
• Installation Guide	

Part No.	S1125-KIT-2
S1125 Adhesive Two Par Epoxy - Kit 2	
Flexible Two-Part Epoxy Adhesive Includes:	
• 2 x 10g packs	

Part No.	S1125-KIT-3
S1125 Adhesive Two Par Epoxy - Kit 3	
Flexible Two-Part Epoxy Adhesive Includes:	
• 1 x 100g pack	

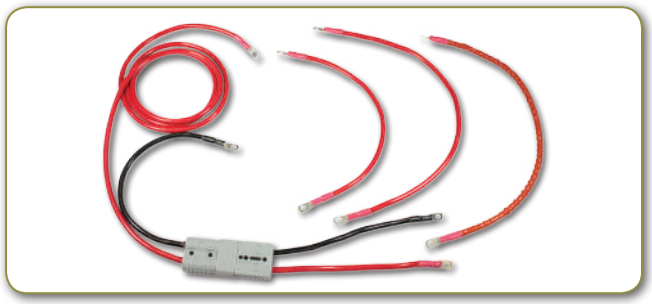
Part No.	S1125-KIT-4
S1125 Adhesive Two Par Epoxy - Kit 4	
Flexible Two-Part Epoxy Adhesive Includes:	
• 5 x 10g packs	

Part No.	S1125-KIT-5
S1125 Adhesive Two Par Epoxy - Kit 5	
Flexible Two-Part Epoxy Adhesive Includes:	
• 1 x 10g pack	

Part No.	S1125-KIT-8
S1125 Adhesive Two Par Epoxy - Kit 8	
Flexible Two-Part Epoxy Adhesive Includes:	
• Duo-Syringe: 50ml	
• 5 Mixing Cups	
• Sticks	
• Adhesive Strips	
• Installation Guide	

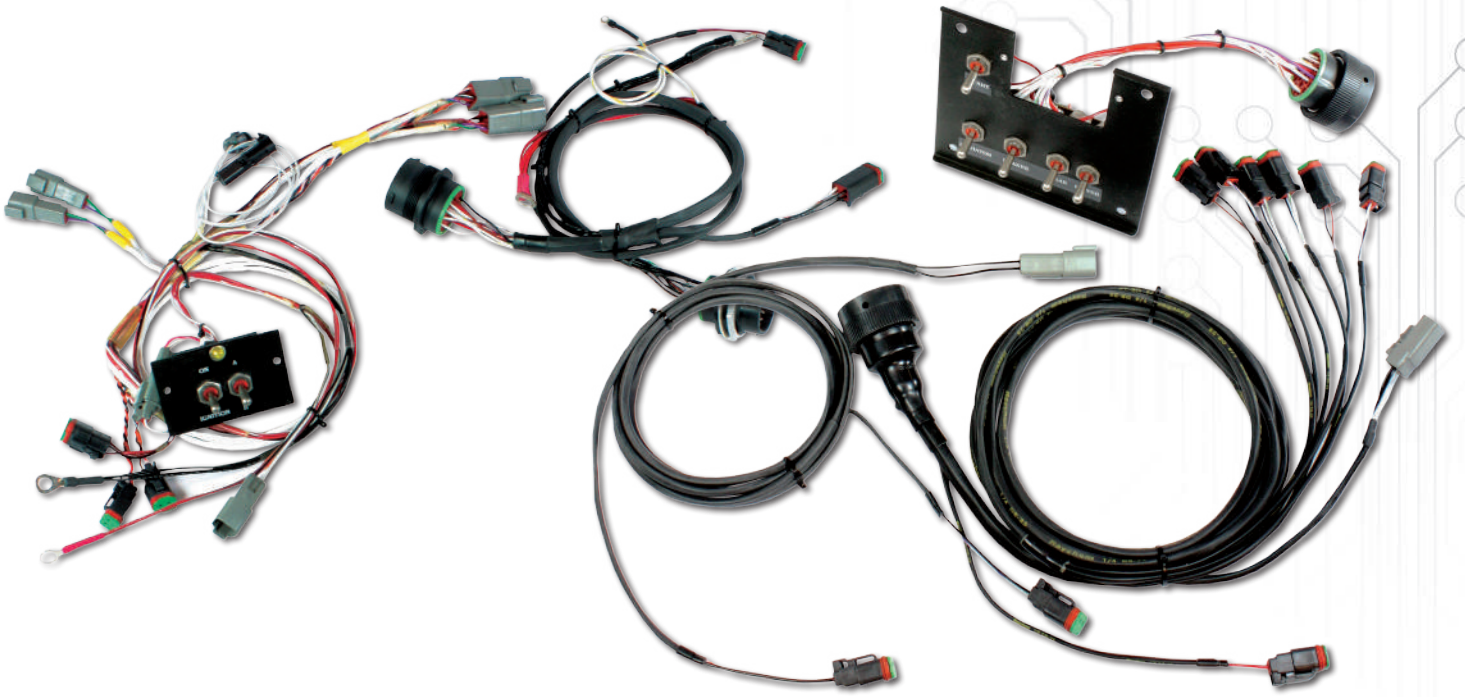
Custom Wire Harnesses

Quality Control & Documentation



Battery Kits

Wire Harnesses



Wired will provide un-paralleled support and be a valuable resource for your race team. Wired is a custom design electrical harness shop which focuses solely on the performance racing industry. We will support your team by assisting or building a better, more reliable electrical system for your race team. Our dedication to service and reliability is second to none.

Custom Wire Harnesses

We are capable of producing one-off designs or multiple harness production runs. We can build to print or assist in the design and development of your high performance electrical system with our on staff engineers. Utilizing 3D CAD modeling, harnesses are designed with an emphasis on reliability, weight savings and ease of installation.



Wired staff and engineers are experienced veterans from the racing industry. Every electrical system is engineered and produced using carefully selected connectors and wire that are the best in terms of function, quality and cost effectiveness. Wired also uses the highest quality mil-spec components available.

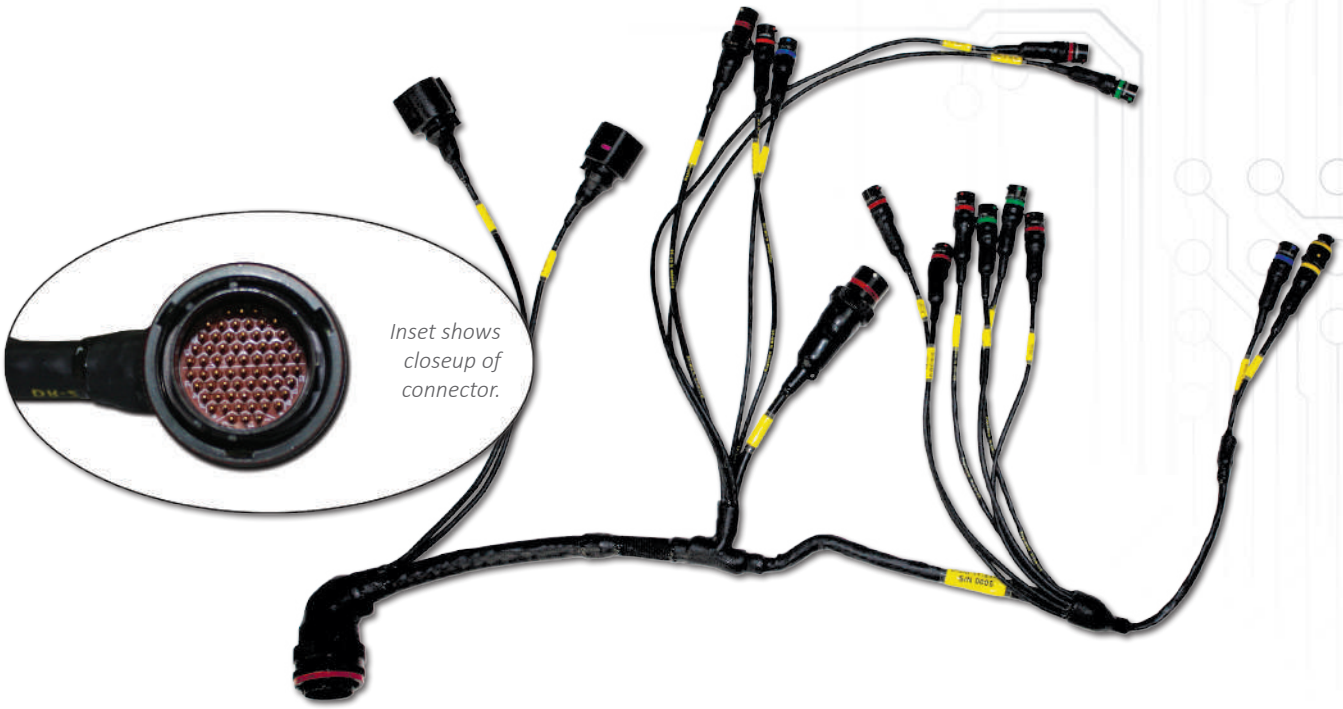
Wired has years of experience in the design and manufacture of traditional racecar accessory as well as EFI, engine management and dyno harnessing. We have continually responded to issues that arise within the racing industry with specialized products and services and will continue to do so for years to come.

Our designers always stay current with NASCAR rules for wire harnesses. Be assured, you will go to the track with a compliant (under current rules) electrical harness from Wired.

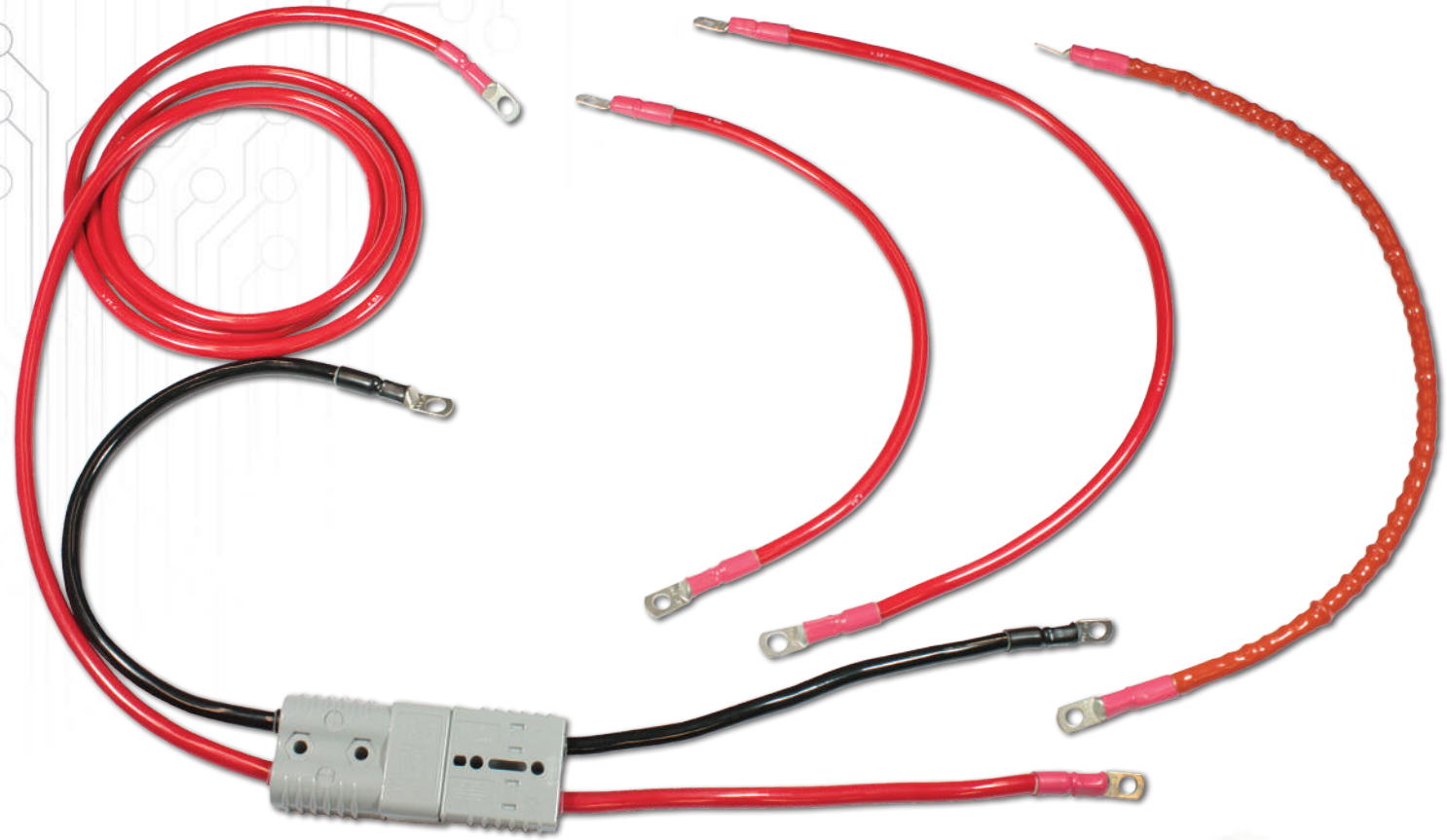
Modular Design

Wired designs all harnesses using a modular concept. Rather than “point-to-point” wiring, a modular harness is much easier to install. More importantly, in the event of damage to your harness, it allows you to repair your electrical system at the track much faster, getting you back on track quicker. We know you don’t want to spend time at the track diagnosing and rewiring electrical problems. With a Wired modular harness, you simply unplug and replace the damaged section.




Inset shows
closeup of
connector.

Battery Kits



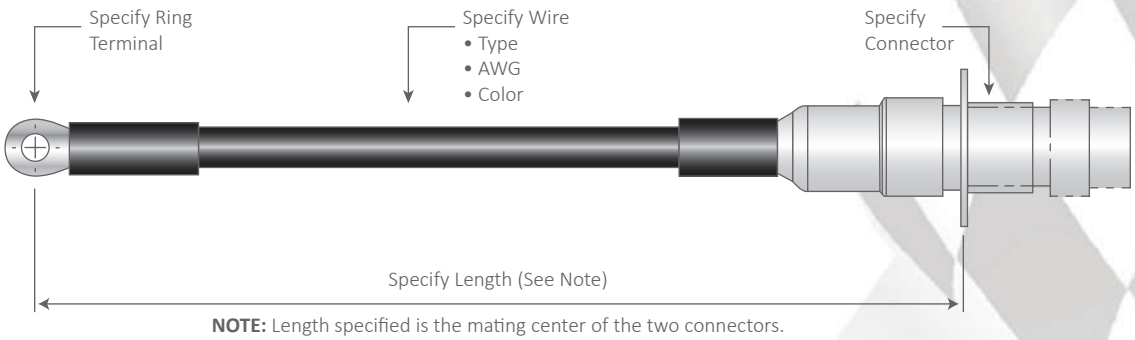
Battery Cables

Wired builds custom battery cables to your specifications. Let us spare you the headache of building your own using incorrect crimping methods and soldering. We use hydraulic presses and dies that ensure the highest quality and reliable crimp.

The following diagrams show battery cable ordering information.

Alt Lead Sample

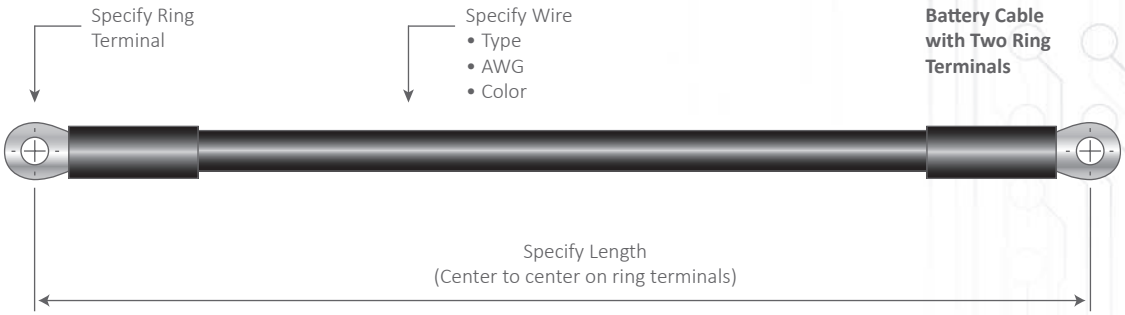
Diagram A.



NOTE: Length specified is the mating center of the two connectors. Determine where the center of the junction should be.

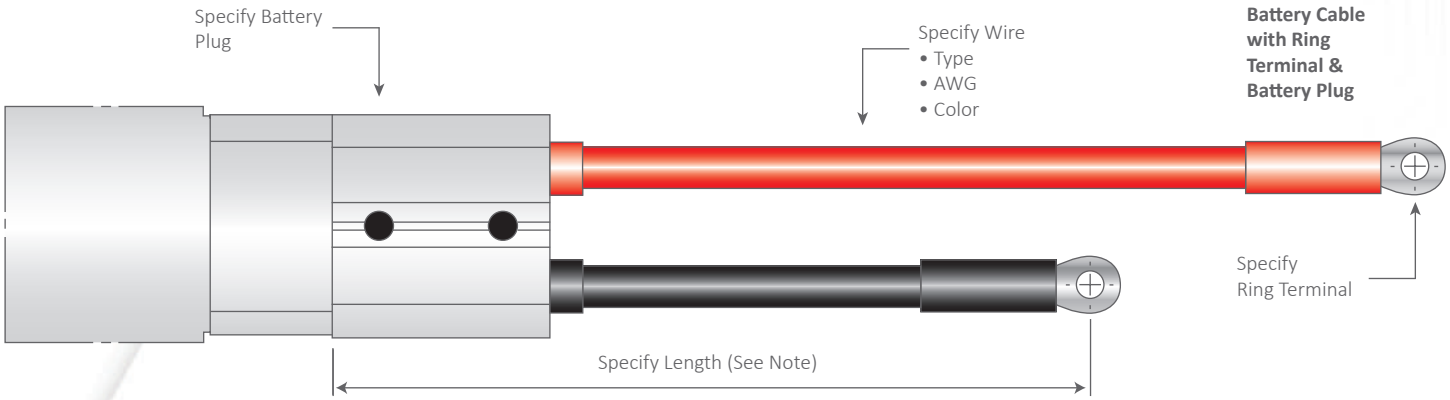
Battery Cable Sample

Diagram B.



Battery Cable & Plug Sample

Diagram C.



NOTE: Length specified is the mating center of the two battery connectors and the center of the ring terminal. Determine where the center of the junction should be.

FOR ALL THE DEMANDS OF YOUR ELECTRICAL SYSTEMS

GET CONNECTED



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