

WeatherMATCH 4-Step Hose Assembly Program



Powering Business Worldwide

Crimp with Confidence

WeatherMATCH 4-Step Hose Assembly Program

From start to finish the identifiers guide the way to the perfect crimp.

Through the use of identifiers on the hose, hose ends, tooling, and assembly equipment the WeatherMATCH program allows you to customize your hose assembly shop so you can make assemblies faster, safer, and with more confidence.

Faster

Once your hose assembly shop has been setup with the WeatherMATCH program you save time looking for the appropriate hose end, crimp specification, tooling, and setting. Each one clearly marked to match from start to finish!

Safer

The WeatherMATCH program was designed to reduce the chance for mismatched components. The Weatherhead hose and hose fittings have been designed to work together as a compatible hose assembly system.

More Confidence

Hydraulic hoses are used in critical applications and new users can be intimidated by the hose assembly process. Follow the simple WeatherMATCH 4-Step Program to crimp with confidence, using the right combinations of hose, hose fittings and tooling to produce a high quality Weatherhead hose assembly.

Customize your Hose Shop

The control panel on the Eaton ET4020 can be pre-programmed and labeled to match the WeatherMATCH 4 step hose assembly process.

Contact your local Eaton sales representative to order WeatherMATCH program labels for both your crimper control panel, as well as your die sets.



WeatherMATCH™

4-Step Hose Assembly Program

As Fast & Easy as Matching & Mating

Colors and braid identifiers on the hose layline match the design and number of rings on its corresponding fitting type. Following your selection of the proper hose and fitting, select a pre programmed crimp setting, and the corresponding color coded die for the final assembly step.

1 Select a Hose

Hose Selection

Choose the hose for the application, for example: H19008

Note these identifiers on the selected hose:

- Layline Color (Green, Red, Blue, or Yellow, Gray)
- 1B (one braid), 2B (two braid), 4S (four spiral) on layline
- Hose dash size (example 08)



Select from these hoses:

H190, H190H, H245L, H280, H290, H290H, H430

2 Match to a Fitting

Fitting Selection

Simply match the number on the hose to the number of grooved rings on your hose fittings to make the perfect, safe, leak-free connection!

- Match the **1B or 2B** with the Z-Series fitting rings
- Match the **Hose Size** with the Z-Series fitting size (example EATON 08)
- Select the correct hose fittings for your hose assembly



Z-Series Hose Fittings

Bite-the-Wire Type Technology

WeatherGrip hose ends feature advanced "Bite-the-Wire" technology:

- Advanced "Bite-the-Wire" design provides higher operating and burst pressure
- Class zero leakage per SAE J1176
- Flat crimp for easier routing
- Compatible with multiple hose styles to accommodate most application needs



3 Select a Crimp Setting

Tooling Selection

Select the Correct Die Cage for the ET4020 Programmable Crimp Machine.

Select the correct Die Cage by matching the hose size and the color code on the hose layline to the color coded tabs on the die cage.

- Insert die cage into crimp machine.
- Press the pre-set button next to the matching decal on the ET4020 control panel.



Color coded tabs on the die cage



Match the pre-set button on ET4020

4 Finished Hose Assembly

- Place your pre-assembled hose assembly in the die cage and align the top of the die cage with the scribe line of the fitting
- Activate crimp machine and hold down until the machine automatically retracts
- Remove completed hose assembly from the machine



Programmable Crimp Machine ET4020

Faster, Safer and with More Confidence

Weatherhead equipment, hose fittings and hose have been engineered and designed as a complete hose assembly system.

Each component of the Weatherhead hose assembly system is compatible with other Weatherhead components with which it relates. Intermixing components is not recommended and may result in the production of unsafe hose assemblies.



The ET4020 has programmable electronic keypads with 10 presets simplifying the hose crimping operation and customizable settings which eliminates the need for spacers or shims in the crimping operation. It automatically crimps to the exact crimp diameter required for that hose type and size.

Capacity: up to 1-1/4" braided and four and six spiral wire hose

WeatherMATCH® & Diamond Advantage

A Powerful Combination

All Diamond Advantage hose products are included in the WeatherMATCH hose assembly program to give you distinct competitive advantages in these three areas.



= The Diamond Advantage

1

Pressure

Improved working pressures provide higher performance levels.

+24%

2

Temperature

Improved working temperatures provide higher performance levels.

+260°F

3

Abrasion Resistance

The WeatherSHIELD® cover is more abrasion resistant than traditional rubber covers.

8x

The Eaton Diamond Advantage hose Our improved designs have enabled us to increase pressures on select Weatherhead hose styles by an average of +24% over the competition.

Improvements in higher hose operating temperatures are the direct result of Eaton's advancements in rubber technology. Eaton now has the highest temperature ratings compared to similar competitive products designed to meet EN specifications. Select Weatherhead braided and spiral hose part numbers now meet -40°C to +127°C (-40°F to +260°F).

New WeatherheadSHIELD™ covers for better abrasion resistance. More resistant than the traditional rubber covers.

BENEFITS TO YOU...

- Higher pressures and temperatures can extend the life of a hydraulic hose in a typical application.
- Hose products to meet market needs with a better long-term value.
- Meet the requirements of today's higher pressure hydraulic systems being introduced into the market.

For more information go to www.Eaton.com/DiamondAdvantage



Diamond Advantage hose products are indicated by this diamond on the hose layline.

Diamond Advantage Hose

| Hose | Construction | Cover | Feature | Hose End |
|-------------|----------------|----------------------------------|--|---------------------------|
| H190 | 1-Wire braided | WeatherSHIELD abrasion resistant | Exceeds EN853 Type 1SN requirements Exceeds SAE 100R1AT Type S requirements | Z-Series |
| H280 | 2-Wire braided | WeatherSHIELD abrasion resistant | Exceeds EN857 type 2SC requirements Exceeds SAE 100R2 requirements | Z-Series |
| H290 | 2-Wire braided | WeatherSHIELD abrasion resistant | Exceeds EN853 Type 2SN performance Exceeds SAE 100R2AT Type S performance | Z-Series |
| H430 | 4-Wire spiral | WeatherSHIELD abrasion resistant | Exceeds SAE 100R12 performance and meets EN856 Type 4SP performance in sizes -8 thru -16 | 430U Series, 4S Series |

Extreme Temperature Hose

| | | | | |
|--------------|----------------|----------------------------------|---|----------|
| H245L | 2-Wire braided | WeatherSHIELD abrasion resistant | Exceeds SAE 100R16 low temperature performance requirements (-70°F to +212°F) | Z-Series |
| H190H | 1-Wire braided | CPE WeatherBLAZE | Extreme Temperature Range: -40°C to + 150°C (-40°F to +302°F) Exceeds EN853 type 1SN requirements | Z-Series |
| H290H | 2-Wire braided | CPE WeatherBLAZE | Extreme Temperature Range: -40°C to + 150°C (-40°F to +302°F) Exceeds EN853 type 2SN requirements | Z-Series |



From Eaton: Powering the world for more than 100 years.

Eaton is a global technology leader in power management. For more than a century, our mission has been to make hydraulic, electrical and mechanical power systems operate efficiently, effectively, safely and sustainably. Our industry-leading distribution network extends to virtually every corner of the globe. Our ability to partner with our customers to develop custom-tailored solutions for their exact needs is legendary. And we're one of the only companies in the world with hydraulic and electrical solutions in one place—simplifying one more aspect of an increasingly complex world.

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Printed in USA
Document No.: W-DICO-BB003-E
April 2015