

BRYANT® SAFETY EVALUATION

**A step-by-step checklist to help
identify potential problems.**

From Bryant, the wiring device experts.

The bottom half of the page features a series of four thick, parallel diagonal stripes that run from the top-left towards the bottom-right. These stripes alternate between a bright yellow and a dark charcoal grey color, creating a strong visual pattern.

BRYANT®

BRYANT® Wiring Device Safety Evaluation Checklist

The Bryant wiring device safety evaluation checklist is an excellent tool to add value by working with your customer to ensure a safe workplace. Additionally, it enables you to give evidence to its promise to “deliver solutions”.

Wiring devices are crafted to perform specific functions within the electrical and physical limitations of their design. Normal wear, misapplication, abusive ambient conditions or extraordinary demands on the product can alter both form and function of these devices. Under extreme circumstances, wiring devices may cause hazardous or unsafe conditions. It is essential, therefore, that routine inspection of all wiring devices be performed to identify and correct such circumstances. Particular care should be taken when inspecting inoperative products or where it appears that incompatible configurations have been modified or forced to mate. *It is always recommended that a qualified electrician perform all electrical work.*

Unsafe conditions or product misapplications can cause personal injury, damage to equipment and work inefficiency. Identifying and rectifying hazardous and dangerous situations can improve worker morale, protect equipment and save lives.

The Evaluation Process:

- The Bryant safety evaluation process specifies how and where to look for unsafe conditions and / or product applications.
- The Bryant safety evaluation checklist provides product options that will correct the misapplication of product(s) or upgrade an existing application, or
- The Bryant safety evaluation will suggest the replacement of an outdated design with the newest available technology.

What Products Are Included?

The safety checklist covers the most popular product categories found in typical industrial work environments:

- | | |
|---|---|
| <input type="checkbox"/> Switches | <input type="checkbox"/> Wire Management |
| <input type="checkbox"/> Plugs / Connector Bodies | <input type="checkbox"/> Lock Out – Tag Out |
| <input type="checkbox"/> Receptacles | <input type="checkbox"/> Safety Enclosures |
| <input type="checkbox"/> Ground Faults | <input type="checkbox"/> High Amperage Products |

Inspection Criteria

Although the checklist does not address every circumstance or situation, it is a practical guide for conducting a rudimentary safety inspection. Examination parameters include type of product, product style, product usage specifications, application demands (e.g. strain relief, amperage, etc.), workplace conditions (e.g. harsh or hazardous, abusive, etc.). The questions provided in each product section are minimal and may not be complete, particularly if extraordinary conditions indicate that closer evaluation may be required.

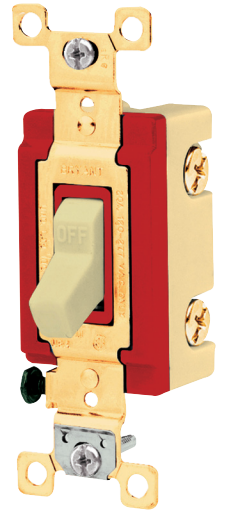
Solution Selling...a trademark of excellence from Bryant!

SWITCHES

- Is the wall plate properly secured and in good condition?
- Is the switch firmly fastened to the box or enclosure?
- Do you perform maintenance on equipment activated by toggle switches?
- Do you need to identify on/off status of circuits in remote locations?
- Are there dimly-lit areas that require quick location of switches?
- Are cranes and hoists in use?
- Is the switch used for on/off actuation of motor loads?
 - If “yes”, is it properly rated?
- Do you need to discourage or prevent unauthorized equipment use?

YES

NO



PRODUCT OPTIONS (Check off the product categories that can best upgrade the installation)

- | | | |
|---|---|---|
| <input type="checkbox"/> Tech-Spec 401 Series | <input type="checkbox"/> Lockable Attachment Covers | <input type="checkbox"/> Locking Switches |
| <input type="checkbox"/> Commercial Grade | <input type="checkbox"/> Motion Switches | <input type="checkbox"/> Stainless Steel/Nylon Plates |
| <input type="checkbox"/> Pendant Stations | <input type="checkbox"/> Manual Motor Controllers | <input type="checkbox"/> Weatherproof Plates |
| <input type="checkbox"/> Switch-Lockout | <input type="checkbox"/> Pilot Light Switches | <input type="checkbox"/> Lighted Switches |
| <input type="checkbox"/> Other _____ | | |

Comments

WIRE MANAGEMENT

- Is strain relief used on all connections?
- Are there cables that require support (bus drops, drop cords, etc.)?
- Are wires/cables ever pulled through conduit?
- Are wire/cable pulls ever required close to “hot” equipment?
- Is the application area a corrosive environment?

YES

NO



PRODUCT OPTIONS (Check off the product categories that can best upgrade the installation)

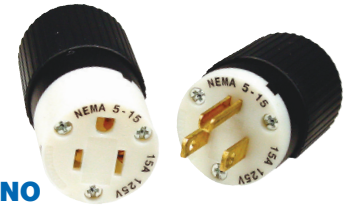
- | | | |
|--|--|--|
| <input type="checkbox"/> Pulling Grips | <input type="checkbox"/> Support Grips | <input type="checkbox"/> Strain Relief Grips |
| <input type="checkbox"/> Stainless Steel Grips | <input type="checkbox"/> Other _____ | |

Comments

PLUG/CONNECTOR 15/20 AMPERE

STYLE OF DEVICE IN USE:

- Straight Blade Locking Power Interrupting
- Pin & Sleeve



- Is the outer jacket of the cable free of cracks and completely inside of the housing? YES NO
- Does the cable appear loose in the cord grip? YES NO
- Is the cable within the working diameter of the cord grip? YES NO
- Are the devices non-grounding or non-NEMA? YES NO
- Do any devices run warm or hot to the touch? YES NO
- Are the devices used in a wet/corrosive environmental area intended for the purpose? YES NO
- Is strain relief used on plug/connector, pendants and cord drops? YES NO
- Is visibility of the device a concern? YES NO
- Would transparent housings for critical connections be desirable? YES NO
- Are devices fully and securely mated? YES NO
- Is the plug and/or connector housing or enclosure free of cracks or chips? YES NO
- Are plug blades bent, twisted or distorted? YES NO
- When you replace devices, do you replace the mating device as well? YES NO
- Have angle plugs been considered to reduce trip hazard? YES NO

YES **NO**



PRODUCT OPTIONS (Check off the product categories that can best upgrade the installation)

- Cobra Corrosion Resistant Manual Reset GFCI Line Cords
- Locking Power Interrupting Locking Plug & Connector Strain Relief
- Elastomeric Transparent Devices Other_____

Comments

LOCK-OUT/TAG-OUT

- Is there a Lock-Out/Tag-Out procedure for electrical plugs/switches? YES NO
- Current method used: Tag Out Lock-Out
- Awareness of changes in OSHA regulations? YES NO

YES **NO**

PRODUCT OPTIONS (Check off the product categories that can best upgrade the installation)

- Plug-Out Motor Starting Switch Enclosures Switched Safety Enclosures
- Switch Lock-Out CS Style 50A Locking Plugs Other_____

Comments



RECEPTACLES – 15/20 AMPERE

STYLE OF DEVICE IN USE:

- Locking Straight Blade

- Is the wall plate intact?
- Is the receptacle face broken or cracked?
- Is the receptacle firmly mounted?
- Is the receptacle properly protected in a wet/corrosive area?
- Is the device used to power electronic equipment?
- Is the receptacle grade adequate for the application's abuse levels?
- Are receptacles installed in dimly lit areas?
- Is there a recently updated written specification?
- Has the ground pin retention level been checked recently?

YES **NO**

<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>



PRODUCT OPTIONS (Check off the product categories that can best upgrade the installation)

- | | | |
|---|--|--|
| <input type="checkbox"/> BRY5262 | <input type="checkbox"/> Weatherproof Plates | <input type="checkbox"/> Illuminated Devices |
| <input type="checkbox"/> Locking | <input type="checkbox"/> Isolated Ground | <input type="checkbox"/> Ground Fault |
| <input type="checkbox"/> Commercial Grade | <input type="checkbox"/> Surge Protection | <input type="checkbox"/> Corrosion Resistant |
| <input type="checkbox"/> Stainless Steel Plates | <input type="checkbox"/> Nylon Plates | <input type="checkbox"/> Other _____ |

Comments

SAFETY ENCLOSURES SYSTEMS

STYLE OF DEVICE IN USE:

- NEMA 3R (Raintight) NEMA 4 (Hose-directed water)
 NEMA 4X (Hose-directed water, corrosive) Other

- Is it a concern if your employees make or break equipment under load?
- Are installed products rated for make or break under load?
- Are there any wash-down areas not utilizing NEMA 4X enclosures?
- Are corrosive-resistant enclosures being utilized where needed?
- Does your disconnect equipment have Lock-Out/Tag-Out capability?

YES **NO**

<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>



PRODUCT OPTIONS (Check off the product categories that can best upgrade the installation)

- | | | |
|--|--|---|
| <input type="checkbox"/> Mechanical Interlock | <input type="checkbox"/> Unfused Interlock | <input type="checkbox"/> Unfused Disconnect |
| <input type="checkbox"/> Motor Starting Switch | <input type="checkbox"/> Enclosures NEMA Type 1 and 3R | <input type="checkbox"/> Other _____ |

Comments

GROUND FAULT PROTECTION

- Where are GFCI products currently being used?
 - Bathrooms
 - Outside Outlets
 - Water coolers
 - Laboratories
 - Kitchens
 - Wash-down areas
 - Other
- Are GFCI products used on portable tools?

YES	NO
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>



PRODUCT OPTIONS (Check off the product categories that can best upgrade the installation)

- | | | |
|--|--|--|
| <input type="checkbox"/> Commercial Grade Receptacle | <input type="checkbox"/> In-Line Portables | <input type="checkbox"/> Faceless Receptacle |
| <input type="checkbox"/> Multi-Outlet Portables | <input type="checkbox"/> Plug-in Adapters | <input type="checkbox"/> GFCI Plug |
| <input type="checkbox"/> Other _____ | | |

Comments

HIGH AMPERAGE PRODUCTS – 30/50/60/100 AMP

Which of the following amperages are used:

- | | | | |
|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| <input type="checkbox"/> 30 Amp | <input type="checkbox"/> 50 Amp | <input type="checkbox"/> 60 Amp | <input type="checkbox"/> 100 Amp |
|---------------------------------|---------------------------------|---------------------------------|----------------------------------|

High Amp style in current use:

- | | | | |
|---|----------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Straight Blade | <input type="checkbox"/> Locking | <input type="checkbox"/> Power Interrupting | <input type="checkbox"/> Pin & Sleeve |
|---|----------------------------------|---|---------------------------------------|

- Are installed products rated for make or break under load?
- Has an interlock or power interrupting product been considered?
- Have non-metallic products been considered?
- Are products installed in wet/corrosive areas intended for this environment?
- Would the use of a strain relief product improve the installation?
- Are the products designed to prevent unintentional mismatching?

YES	NO
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>



PRODUCT OPTIONS (Check off the product categories that can best upgrade the installation)

- | | | |
|--|--|---|
| <input type="checkbox"/> High Amp Straight Blade | <input type="checkbox"/> Power Interrupting | <input type="checkbox"/> Strain Relief Grips |
| <input type="checkbox"/> Pin & Sleeve | <input type="checkbox"/> Corrosion Resistant | <input type="checkbox"/> Mechanical Interlock |
| <input type="checkbox"/> 50 Amp Locking | | |
| <input type="checkbox"/> Other _____ | | |

Comments
