

Quick-Change® Connectors

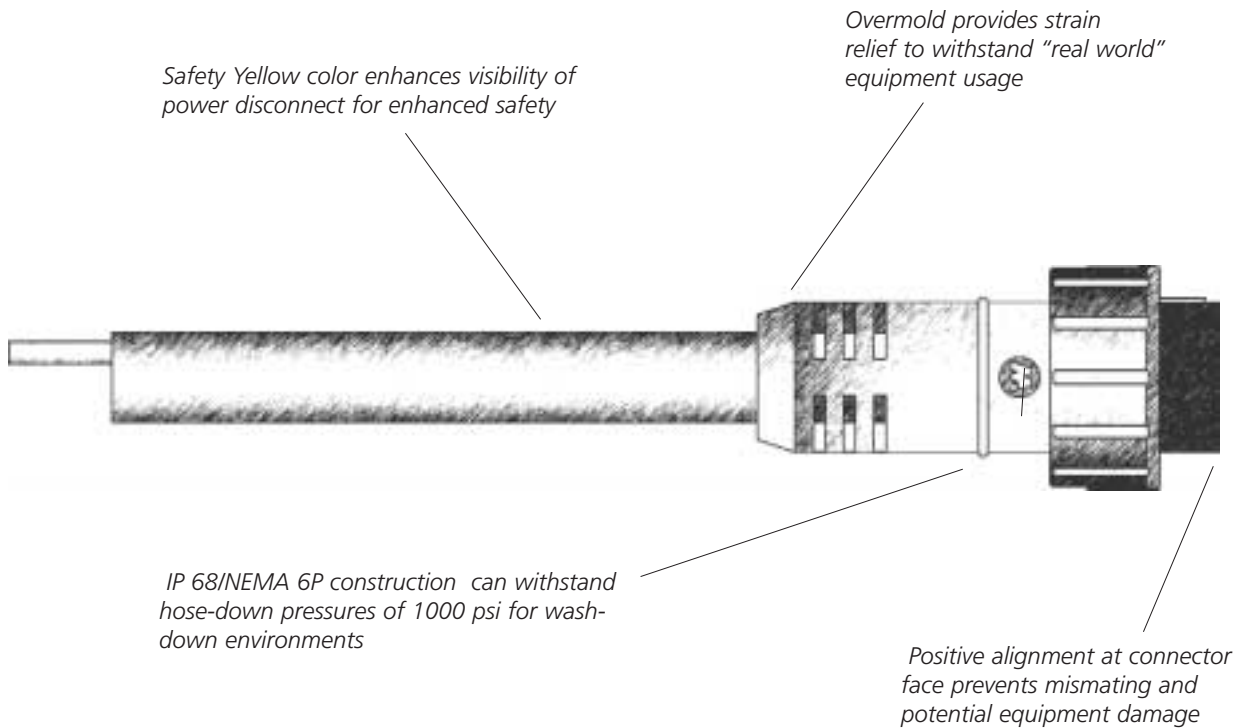
Rugged Performance For the Most Demanding Applications.

From the harsh chemical washdown of food processing to the high temperature of steel production or caustic humidity of pulp/paper production, heavy duty power requirements demand rugged connector products. Brad Harrison® Quick-Change 2® through 4 pole, and up to 30A continuous-duty rating, are constructed to deliver years of uninterrupted performance in power circuit quick disconnect applications. Even in the most demanding environments, the heavy-duty construction and Safety Yellow® color of Quick-Change connectors enhance their visibility helping to insure a safe connection or disconnection. Positive key alignment greatly reduces the possibility of mismating, thereby ensuring reverse phase protection of critical motors. Quick-Change connectors are equipped to withstand hose-down pressures up to 1,000 psi, especially key in food processing environments. In addition, these connectors are designed to withstand up to 105°C operating temperatures while being installed in either high humidity or washdown areas.

Applications

The Quick-Change connector family has served a variety of industries for more than 20 years. Use Quick-Change molded connectors to quickly and safely replace motors (from fractional to 5 HP) on pumps, conveyors, cooling fans, grinders, saws, and other equipment while protecting electrical connections from water, dust, oil and other contaminants.





Design and Quality

With proper mating, Brad Harrison Quick-Change Connectors meet the requirements of NEMA 6P and IP-68 fully submersible test requirements. The high integrity contacts hold up to daily mating and unmating when equipment needs to be moved or cleaned. An SOW cable jacket insures the cordset holds up even in outdoor environments where water and intense UV radiation are present.

2P to 4P



Quick-Change® Cordsets

Quick disconnect and positive alignment of power conductors in harsh environments
#10, #12 and #14 AWG yellow Type SOW cable
Single-ended cordsets and mating receptacles

| | 2P | | | 3P | | | 4P | | |
|------------------|----------------------|-----|-----|--------------------------------------|-----|-----|--|-----|-----|
| FEMALE FACE VIEW | | | | | | | | | |
| COLOR CODE | 1- black 2- white | | | 1- black 2- white 3- green-gnd | | | 1- black 2- green-gnd 3- red 4- white | | |
| VOLTAGE | 600V AC/DC | | | 600V AC/DC | | | 600V AC/DC | | |
| CURRENT | 18A | 25A | 30A | 18A | 25A | 30A | 15A | 20A | 25A |
| CONDUCTOR | #14 | #12 | #10 | #14 | #12 | #10 | #14 | #12 | #10 |

| FEMALE | FIG | SINGLE-ENDED CORDSETS WITH 600V TYPE SOW CABLE | | | | | | | | |
|-------------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|
| 3' | 1 | 32022 | 32029 | 32053 | 32322 | 32342 | 32407 | 32637 | 32669 | 32757 |
| 6' | 1 | 32023 | 32030 | 32054 | 32323 | 32350 | 32408 | 32638 | 32678 | 32758 |
| 12' | 1 | 32024 | 32031 | 32055 | 32324 | 32356 | 32409 | 32639 | 32679 | 32759 |
| MATING RECEPTACLE | FIG | RECEPTACLES WITH 12" LONG PVC-INSULATED WIRE | | | | | | | | |
| THREAD 1/2" | 2 | 32017 | 32032 | 32065 | 32317 | 32357 | 32419 | 32632 | 32680 | 32767 |
| THREAD 3/4" | 2 | 32018 | 32033 | 32066 | 32318 | 32358 | 32420 | 32633 | 32681 | 32768 |

CATALOG OPTIONS

P/N 55-0172 closure cap assembly for receptacles
P/N 55-0170 threaded adapter plus closure cap assembly for cordsets

Use the following chart to modify your part's specifications

32017AL

BODY MATERIAL CODE
ALUMINUM AL

Specifications

2P to 4P



MECHANICAL (CORDSET)

PLUG FACE: NITRILE/SBR
MOLDED BODY: NITRILE/SBR
COUPLING NUT: THERMOPLASTIC WITH OPTIONAL ALUMINUM

CABLE: YELLOW NEOPRENE CABLE JACKET
TYPE SOW, 105° C UL LISTED,
90° C CSA CERTIFIED

| | | | |
|-------------------|------------------|------------------|------------------|
| OUTSIDE DIAMETER: | #14 AWG | #12 AWG | #10 AWG |
| 2/C | .55" (13.9mm) | .63" (15.9mm) | .69" (17.4mm) |
| 3/C | .58" (14.6mm) | .66" (16.6mm) | .72" (18.3mm) |
| 4/C | .62" (15.8mm) | .71" (18.0mm) | .74" (18.8mm) |
| STRANDING | 41 X #30 | 65 X #30 | 105 X #30 |

MECHANICAL (RECEPTACLE)

INSERT MATERIAL: NITRILE/SBR
SHELL MATERIAL: THERMOPLASTIC WITH OPTIONAL ALUMINUM

CABLE: 10/12/14 AWG, 1 CONDUCTOR PVC
JACKETED, 105° C

| | | | |
|------------|---------------|----------|-----------|
| STRANDING: | TINNED COPPER | | |
| | #14 AWG | #12 AWG | #10 AWG |
| | 41 X #30 | 65 X #30 | 105 X #30 |

ELECTRICAL

| | | | |
|-----------------|------------|---------|---------|
| VOLTAGE RATING: | 600V AC/DC | | |
| AMPERAGE | #14 AWG | #12 AWG | #10 AWG |
| 2/C | 18A | 25A | 30A |
| 3/C | 18A | 25A | 30A |
| 4/C | 15A | 20A | 25A |

ENVIRONMENTAL

PROTECTION: IP 68, NEMA 6P
AMBIENT OPERATING TEMP: -4° TO 221° F (-20° TO 105° C)

CERTIFICATIONS

UL: UL RECOGNIZED, FILE NO E46237
CSA: CSA CERTIFIED, FILE NO LR6837

CONNECTOR DIMENSIONS

FEMALE CORDSET

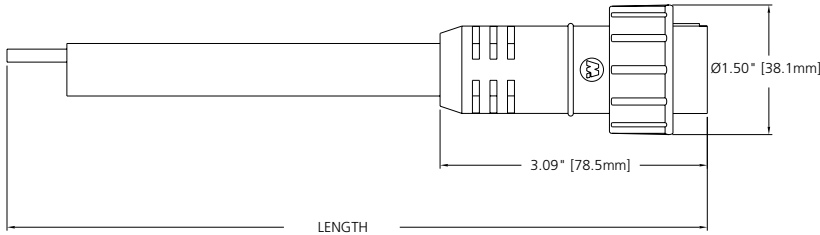


FIG 1

RECEPTACLE DIMENSIONS

MALE RECEPTACLE

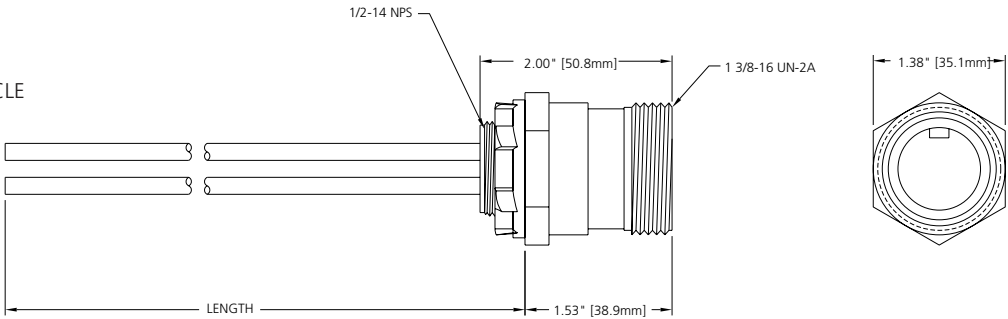


FIG 2