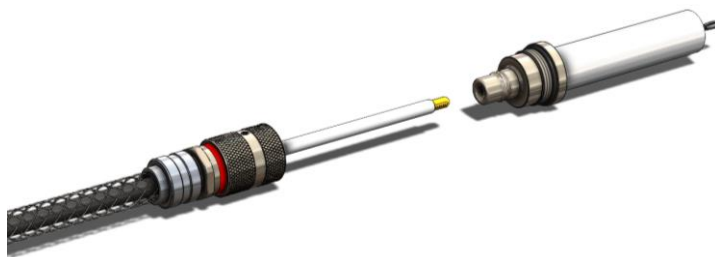


## Overview

HV quick connectors are offered in multiple sizes and styles for voltages up to 700 kV. Exceptionally rugged and precision machined, the high-voltage quick disconnects are designed to ease management of bulky, heavy duty, high-voltage cables. High-voltage quick disconnects are a standard with Marx Generators and other high-voltage equipment.



## Features

- Quick connect/disconnect
- High visibility engagement indication ring: Red = disconnected
- Integrated locking set screw requiring Allen key to lock/unlock
- Integrated strain relief
- All ID edges smooth to minimize electric field enhancements
- High conductivity contacts for outer & center conductors
- Tactile feedback of center conductor engagement prior to mechanical grasp
- Tapered insulator bottom to prevent trapped air in transformer oil

## Models

| CABLE TYPE | DC RATING (KV) | IMPEDANCE (Ω) | CABLE OD (MM) | APPLICATION                              |
|------------|----------------|---------------|---------------|--|
| RG-213/214 | 40             | 50            | 10.29         | Charge and Trigger                       |
| DS 2214    | 75             | 46            | 15.37         | Charge and pulse output                  |
| DS 2042    | 230            | 46            | 31.12         | Pulse output                             |
| DS 2134    | 200            | 68            | 21.59         | Pulse output                             |
| DS 2158    | 250            | 41            | 38.61         | Pulse output                             |
| DS 2245    | 25             | 12.5          | 15.75         | Trigger and pulse output                 |
| DS 2077    | 300            | 70            | 38.1          | Pulse output                             |
| RG 220     | 100            | 50            | 28.45         | Charge and pulse output                  |
| RG 217     | 50             | 50            | 13.84         | Pulse delivery and high voltage charging |
| DS 2121    | 150            | 50            | 15.88         | Pulse delivery and high voltage charging |
| CUSTOM     | -              | -             | -             | -  |

## Materials

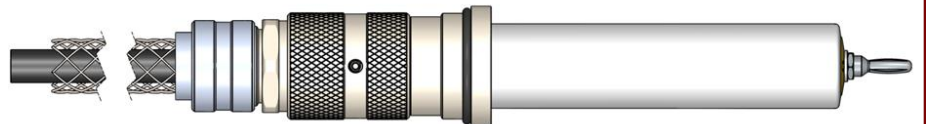
- C36000 brass bodies (Nickel plating option)
- Bright red Acetal indication ring
- Zinc finish hard drawn spring
- 440C Stainless steel ball bearings
- Stainless steel set screw
- C36000 brass center conductor plug and receiver
- Silver plated zirconium/chromium (or similar) canted spring contacts

Exemplary Pictures



**Connected**

- Red indication ring is not visible.
- Locking ball bearings are fully engaged.
- Proper electrical contact is made.



**Disconnected**

- Ball bearings are disengaged.
- Red indication ring shows. Warning!
- Connection NOT made.

