



### 1. Detection of uninsulated cables in a twisted cable assembly

Uninsulated cables should be detected in a twisted cable assembly. For this purpose a color sensor type **SPECTRO-3-FIO-JR** in connection with an optical fiber type **R-S-R2.1-(6x1)-600-67°** are used. The distance of the optical fiber to the cable is approximately 10mm. The spot size at this distance is around 9mm x 2mm. To realize a complete control around the coverage three systems are necessary (120° angle between the systems). As shown in the screen shots, a proper detection of uninsulated parts is possible.

