AVIAN FLIGHT DIVERTER HIGH CONTRAST REFLECTIVE AVFD-HCR

WILDLIFE AND ASSET PROTECTION PRODUCTS



HIGH CONTRAST, DRONE INSTALLABLE, MULTI-DYNAMIC AVIAN FLIGHT DIVERTER

APPLICATIONS

- Overhead Power Networks
- Transmission Conductor
- Distribution Conductor
- Ground Conductor

RELEVANT STANDARDS AND TEST REPORTS

- IEC 60060-1 - Withstand voltage test
- IEEE 1656 - Clamping Functionality in High Winds
- IEC 61897 - Slip Test

KEY FEATURES

- Installable by drone, hot-stick, or hand
- No flash over occurred up to an equivalent of 178kV Ø-Ø (Phase-Phase)
- Rated for wind loads up to 100 mph (160 km/h) and resistant to snow and ice
- High-strength spring secures location on the conductor
- Excellent visibility performance with a Michelson contrast of ≈ 0.991

TE Connectivity (TE) Avian Flight Diverters High Contrast Reflective AVFD-HCR are designed to increase visibility of overhead lines, helping birds detect and avoid potential collisions. By making lines more noticeable, large birds such as geese and swans have additional time to change direction, reducing the risk of injury and infrastructure damage.

Our AVFD-HCR features high-visibility, contrasting reflective elements that enhance daytime visibility. Multiple independent tabs with intermittent high-contrast colors further improve detection, supporting effective bird-strike mitigation.

Compatible with a wide range of conductor types, verified through withstand-voltage testing with no flashover events up to an equivalent phase-to-phase voltage of 178 kV, and suitable for use on ground wires regardless of system voltage classification. The diverters fit conductors up to 50 mm in diameter and are secured using high torsional strength springs that provide clamping forces greater than 100 N (22.48 lbf), ensuring stability in diverse weather conditions.

Installation can be performed using a hot stick, by drone, or by an aerial remotely operated vehicle, enabling efficient deployment on energized or hard-to-access lines. The diverters are also removable, simplifying inspection and maintenance.

TECHNICAL SPECIFICATIONS

Product Description	Conductor Application Range mm (in)	Dimensions mm (in)	Weight kg (oz)	Standard Pack Size
AVFD-HCR (B10)	2 - 50 (0.08 - 1.9)	250 × 230 (10 × 9)	0.39 (13.8)	10

PRODUCT PERFORMANCE

Properties	Test Method	Requirements
Withstand voltage test	IEC 60060-1:2010, AS 1931.1-1996, AS 2225-1994	No flash over occurred up to an equivalent of 178kV Ø-Ø (Phase-Phase)
Slip Test	IEC 61897: 2020	145 N (32 lbf) on Ø21.6 mm (0.85 inch) OD ASCR conductor
Michelson Contrast	-	Approx. 0.991
Clamp Force	-	Ø20 mm - 123 N / 28 lbf Ø30 mm - 146 N / 33 lbf Ø50 mm - 168 N / 38 lbf
Cold Weather Clamp Force Retention	IEEE 1656: 2010	-35°C (-31°F)
Ice loading effect on 22 mm conductor	EN 50341-2-4:2016	1.4% increase at 10m spacing

TEST REPORT

Document Reference	Document
PPR-3828	Product Test Report

INSTALLATION INSTRUCTION

Document Reference	Document
PII-4522	AVFD-HCR Installation Instructions

Learn more: TE.com/energy

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