

# FLASH FRANKLIN® LIGHTNING PROTECTION

## RECOMENDATION

- a. Certification Flash Franklin Lightning Protection
- b. 10 (Ten) year Warranty
- c. Labor Department letter
- d. State Electricity Firm and - Indonesian LMK

## OBJECTIVITY

- a. Building
- b. Industry Area
- c. Factory
- d. Entrepot



## Operating System

In the mean time a flock of cloud flow and approach the top of building which has been protected by lightning protection **Flash Franklin**. The electro thees attached in the equipment collect and deposit energy from electrical cloud and electric field. In the capacitor unit after refillin has been adequate the flown to the ion generation. In the same time plenty of atmospheric electrical energy among the cloud inform ion generator. This information then managed by ion generator as a trigge to discharge the energy. This triggering will result streamer leader from central pick up rod and awakening protection for terminal unit.

Laboratorium Test  
HAMBURG LABORATORY Inc.  
Pine Street, Hamburg PA 19521



# FLASH FRANKLIN®

*Lightning Protection*

[www.pakarpetir.com](http://www.pakarpetir.com)

Distributor :



# FLASH FRANKLIN®

*Lightning Protection*

Early Streamer Emission (ESE)  
No Power Supply or Solar Cells  
No Radioactive  
Discharge Current 300 kA  
Protection Radius 215 Meter



# FLASH FRANKLIN®

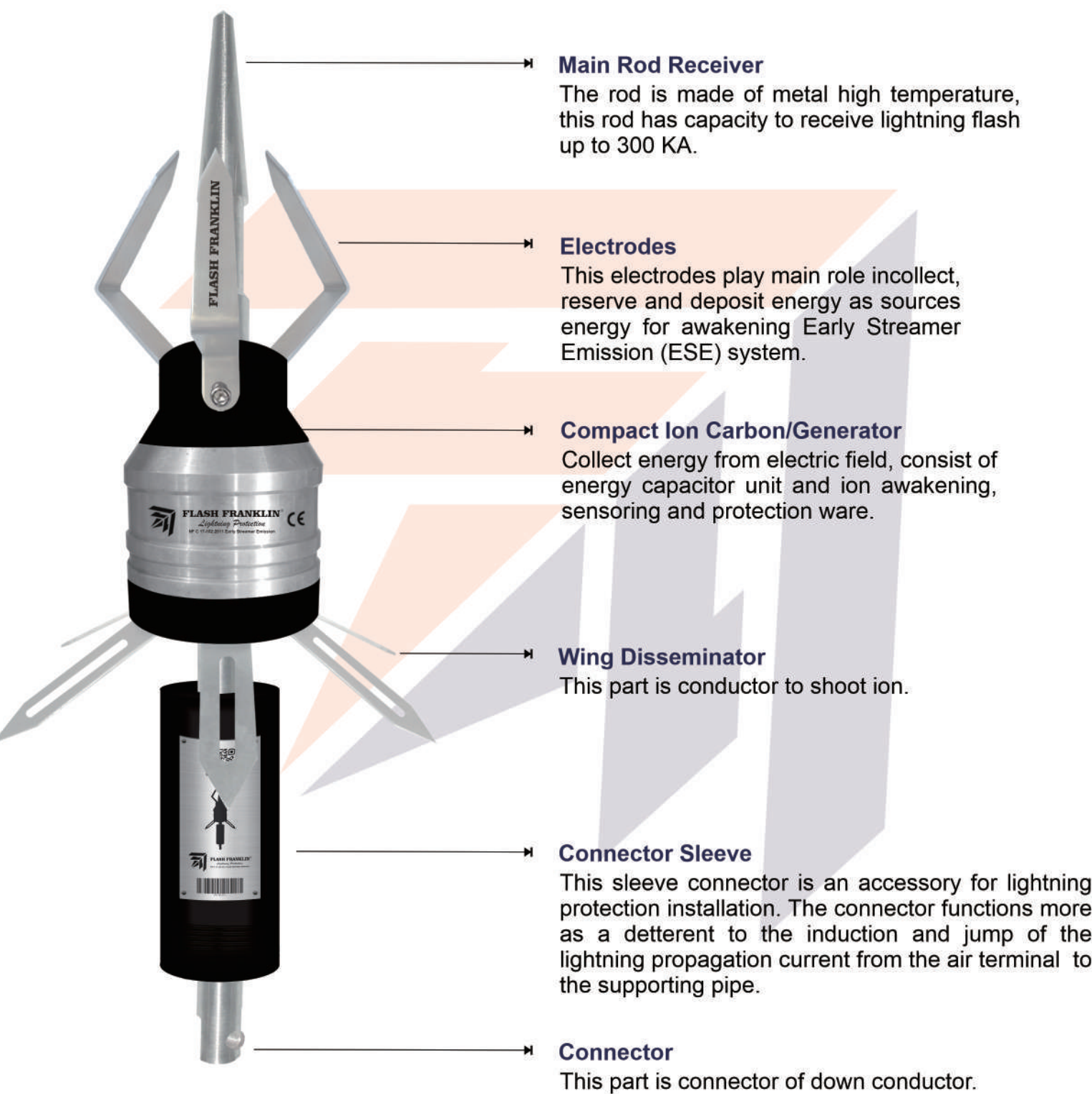
*Lightning Protection*

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# FLASH FRANKLIN® DETAIL



# RADIUS PROTECTION

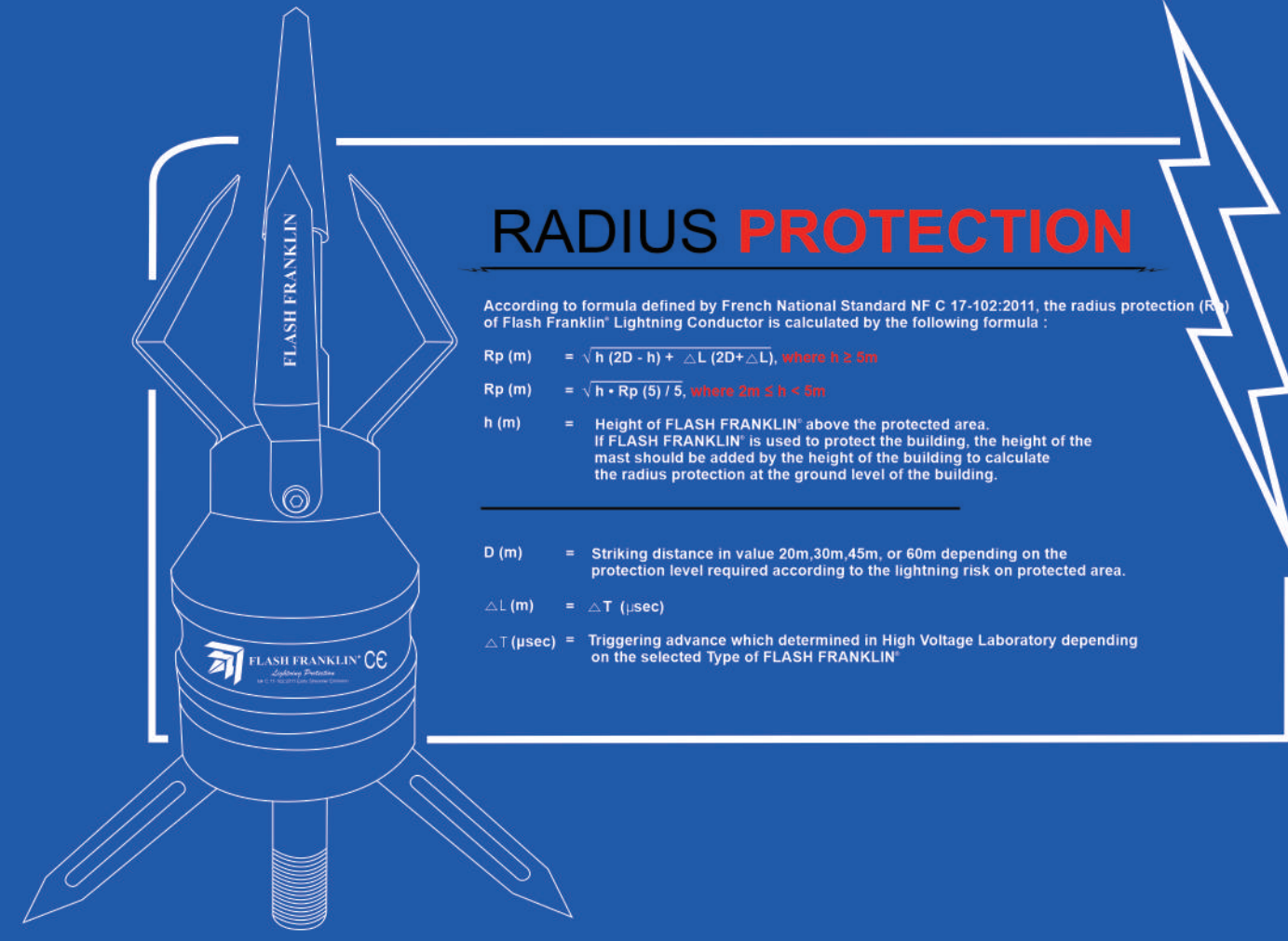


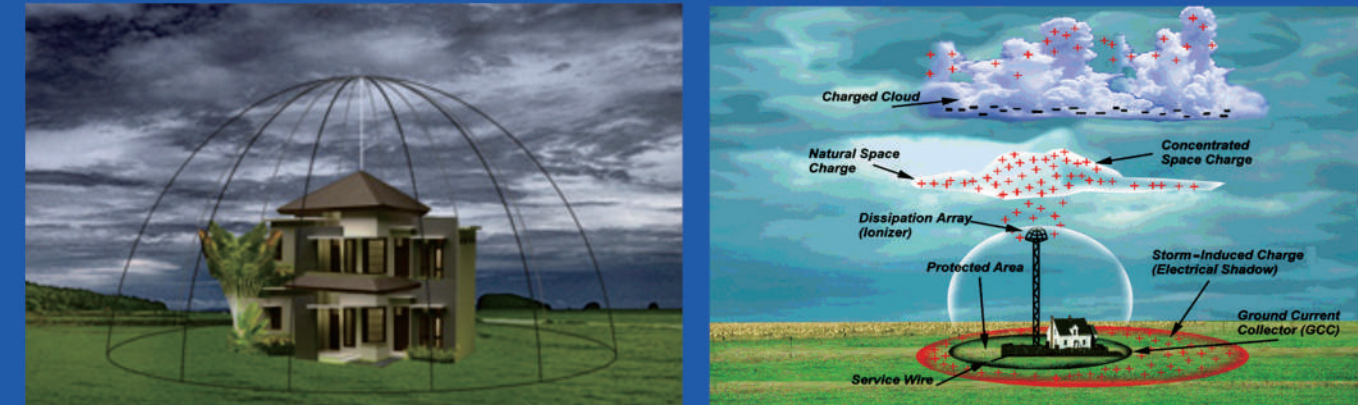
TABLE RADIUS PROTECTION HIGH RISK  
12 Meters of Top Structure Building

HIGH	3M	4M	5M	6M	7M	8M	9M	10M	20M
FRANKLIN-03	111	120	127	134	140	146	151	156	197
FRANKLIN-06	134	146	156	166	174	182	190	198	255

TABLE RADIUS STANDARD PROTECTION  
12 Meters of Top Structure Building

HIGH	3M	4M	5M	6M	7M	8M	9M	10M	20M
FRANKLIN-03	125	136	145	153	161	168	175	181	232
FRANKLIN-06	153	168	181	193	204	215	224	233	305

**Protection Shape**  
Protection Shape of this Flash Vectron as similliar with cage (look at figur below) so everthing under and inside of the cage will be safe from direct lightning flash.



# ABOUT FLASH FRANKLIN®



## FLASH FRANKLIN® LIGHTNING PROTECTION SUPREMACY

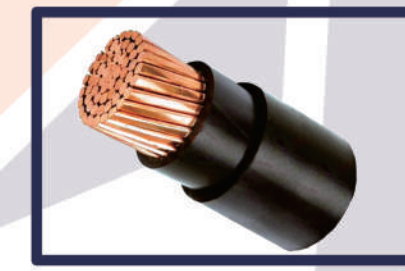
Flash Franklin® lightning protection is an electrostatic lightning rod, ESE based on and designed exceptional Tropical Zone like Indonesia Country.

1. Design by Indonesian lightning engineer and Germany architect,
2. Secure Terminal Unit,
3. Free Maintenance,
  - No Power Supply or solar cells
  - No Radioactive
  - Discharge Curent 300kA
4. More Praticce, designed easily for installation in ground,
5. Highly material,
6. More Economic and Affordable Value,
7. Current Technologist (Exceptional Tropical Zone)
8. Trustworthlu Produce

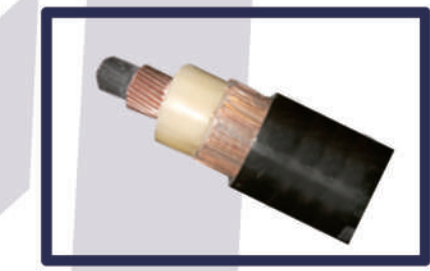
# FLASH FRANKLIN® LIGHTNING CABLES



EXTERNAL INSTALLATION



INTERNAL/EXT INSTALLATION



HIGH EXTERNAL INSTALLATION

When the installation of lightning conductor cable placed outside away from building and other installation (electrical and data) or away from the reach of the occupants can use the cable cord BCC (Bare copper conductor) at least 50 mm, with cheap consideration.

Meanwhile, when the ani-lightning conductor cable in put away from the buildings and other installation (electrical, data) or away from the reach of the occupants can use cbale NYY 50mm or 70mm cable with consideration enough to with stand lightning induction.

NYA exact same cable with NYY, make into the NYY cable that has two insulators or two layers of copper wrapping, wrapping one layer while the NYA or the insulator.

And when the path installation can not keep it away from other installation (electrical, data, control, etc) then the cable that can withstand voltage breakdown/induction (inception voltage) flow lightning , for example N2XSJ Coaxial cable and 2x35mm.

