

# SafeTrack 3

## SHROUDED CONDUCTOR TECHNICAL DATA SHEET



### CONDUCTOR

SF3A-500A

SF3A-800A

SF3A-1000A

SF3C-500A

SF3C-800A

SF3C-1000A

#### Material

Aluminium With SS Strip

COPPER

Conductor Rating At +35 °C CDF  
100%

500A

800A

1000A

500A

800A

1000A

Impedence mili Ohms/M +35 °C

0.158

0.145

0.138

0.162

0.137

0.128

DC resistance milliohms/M +35 °C

0.098

0.075

0.052

0.106

0.059

0.035

Standard Conductor Length

4.5 Mtrs

4.5 Mtrs

4.5 Mtrs

4.5 Mtrs

4.5 Mtrs

4.5 Mtrs

Conductor Joint

BOLTED

BOLTED

BOLTED

BOLTED

BOLTED

BOLTED

Conductor Rating At 100% CDF +35 °C

500A

800A

1000A

500A

800A

1000A

+ 40 °C

460A

736A

920A

465A

744A

930A

+ 45 °C

405A

648A

810A

435A

696A

870A

+ 50 °C

380A

608A

760A

410A

656A

820A

+ 55 °C

340A

544A

680A

390A

624A

780A

### INSULATION

Standard Insulation

PVC

PVC

PVC

PVC

PVC

PVC

System working Temperature ?

80 °C

80 °C

80 °C

80 °C

80 °C

80 °C

Flame Test

Self Extinguishing

Self Extinguishing

Self Extinguishing

Self Extinguishing

Self Extinguishing

Self Extinguishing

Insulation Cover

RYBG

RYBG

RYBG

RYBG

RYBG

RYBG

Protection Class (Finger Safe)

IP21

IP21

IP21

IP21

IP21

IP21

Maximum System Voltage

500VAC  
600VDC

500V AC / 600V DC

500V AC / 600V DC

500VAC  
600VDC500V AC / 600V  
DC500V AC / 600V  
DC

High Voltage withstand For 1min /  
Flashover Test

2.5KV / 7.5KV

2.5KV / 7.5KV

2.5KV / 7.5KV

2.5KV / 7.5KV

2.5KV / 7.5KV

2.5KV / 7.5KV

### INSTALLATION

Support Pitch Standard

1500 mm

1500 mm

1500 mm

1500 mm

1500 mm

1500 mm

Hanger Clamps

1pole

1pole

1pole

1pole

1pole

1pole

Minimum Pitch Centre

75 mm

75 mm

75 mm

75 mm

75 mm

75 mm

Max distance between Anchor points

75 Mtrs

75 Mtrs

75 Mtrs

75 Mtrs

75 Mtrs

75 Mtrs

Power Feeding

At joint or at any  
location

At joint or at any location

At joint or at any location

\* At joint or at any  
locationAt joint or at any  
locationAt joint or at any  
location

Expansion section required for  
bay lengths more than

200 Mtrs

200 Mtrs

200 Mtrs

200 Mtrs

200 Mtrs

200 Mtrs

Installation suitable for

Indoor / outdoor

Indoor / outdoor

Indoor / outdoor

Indoor / outdoor

Indoor / outdoor

Indoor / outdoor

### APPLICATIONS

Shrouded DSL installations for EOT Cranes, Electric

Hoists, Conveyors, Amusement Drives, Electric Trolleys, storage systems, Material handling systems etc.