

The OBO data line protection devices for network technology are available as basic, combi or fine protection devices, depending on design.

Basic protection devices are lightning arresters in categories D1 + C2 + C3 to IEC 61643-21. They provide lightning potential equalisation between PE/screen and the data lines at the building entrance.

Combi protection devices are lightning and surge arresters in category D1 + C2 + C3 + B2 to IEC 616343-21. They provide the lightning protection potential equalisation between PE/screen and data lines. They also reduce overvoltages to a safe protection level.

Surge arresters in category C2 and C3 provide fine protection.

The protection devices are used for direct insertion into the data lines and can be easily retrofitted into existing systems.



### Overvoltage protection for network technology Ethernet 10Base2/10Base5

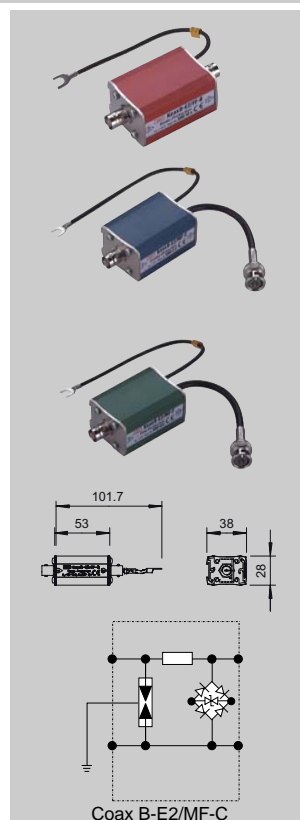
Type	Version	Pack.	Weight	Art. No.	Price
		pcs	kg/% pc		price/pc
<b>Koax B-E2/FF-B</b>	Basic protection	1	15.000	<b>5082 40 4</b>	
<b>Koax B-E2/MF-C</b>	Combi protection	1	15.000	<b>5082 41 2</b>	
<b>Koax B-E2/MF-F</b>	Fine protection	1	15.000	<b>5082 42 0</b>	

Data line protection device for coaxial Ethernet network systems.

- In aluminium housing
- BNC connector for Cheapernet, 10BASE2
- Simple installation with adapter plug
- Two-stage protection circuit
- Suitable for the protection of video signals; cameras and/or TV systems

	U <sub>c</sub>	V	Koax B-E2/FF-B	Koax B-E2/MF-C	Koax B-E2/MF-F
U max AC	U <sub>c</sub>	V	122	4.2	4.2
U max DC	U <sub>c</sub>	V	170	6.2	6.2
LPZ			0-2	0-3	1-3
Pulsed current (10/350)	I <sub>imp</sub>	kA	2.5	2.5	-
Nominal discharge current (8/20)	I <sub>n</sub>	kA	15	15	10 / 0.5
Transmission frequency	f		< 950 MHz	< 113 MHz	< 200 MHz
Insertion loss	a/dB	a/dB	0.1 at 10 MHz	0.2 at 10 MHz	0.2 at 10 MHz
Series resistance	R	Ohm	-	4.7	-
Protection level (sym.) with In C2			≤500 V	≤500 V	≤500 V
Protection level (asym.) with In C2			≤500 V	≤12 V	≤12 V
Protection level (asym.) with 1 kV/μs C3			≤500 V	≤8 V	≤8 V
Protection level			IP40	IP40	IP40
Plug-in system			BNC f/f	BNC m/f	BNC m/f

### Data technology



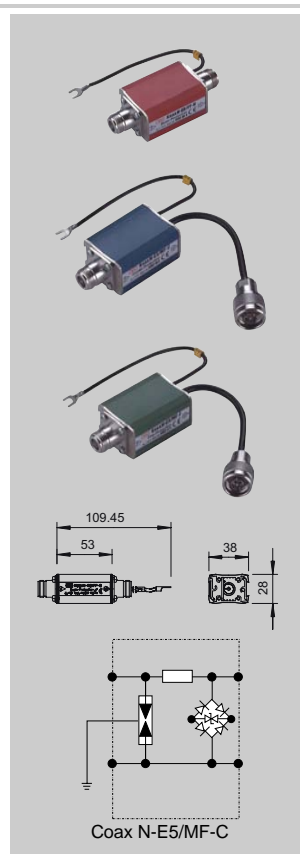
Koax B-E2/MF-C

Type	Version	Pack.	Weight	Art. No.	Price
		pcs	kg/% pc		price/pc
<b>Koax N-E5/FF-B</b>	Basic protection	1	20.000	<b>5082 45 5</b>	
<b>Koax N-E5/MF-C</b>	Combi protection	1	20.000	<b>5082 46 3</b>	
<b>Koax N-E5/MF-F</b>	Fine protection	1	20.000	<b>5082 47 1</b>	

Data line protection device for coaxial Ethernet network systems.

- In aluminium housing
- N connector for Yellow-Cable, 10BASE5
- Simple installation with adapter plug
- Two-stage protection circuit

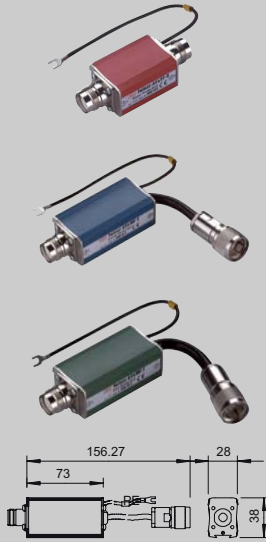
	U <sub>c</sub>	V	Koax N-E5/FF-B	Koax N-E5/MF-C	Koax N-E5/MF-F
U max AC	U <sub>c</sub>	V	122	4.2	4.2
U max DC	U <sub>c</sub>	V	170	6.2	6.2
LPZ			0-2	0-3	1-3
Pulsed current (10/350)	I <sub>imp</sub>	kA	2.5	2.5	-
Nominal discharge current (8/20)	I <sub>n</sub>	kA	15	15	10 / 0.5
Transmission frequency	f		< 950 MHz	< 113 MHz	< 200 MHz
Insertion loss	a/dB	a/dB	0.1 at 10 MHz	0.2 at 10 MHz	0.2 at 10 MHz
Series resistance	R	Ohm	-	4.7	-
Protection level (sym.) with In C2			≤500 V	≤500 V	≤500 V
Protection level (asym.) with In C2			≤500 V	≤12 V	≤12 V
Protection level (asym.) with 1 kV/μs C3			≤500 V	≤8 V	≤8 V
Protection level			IP40	IP40	IP40
Plug-in system			N-Connector f/f	N-Connector m/f	N-Connector m/f



Koax N-E5/MF-C

Overvoltage protection for network technology Ethernet 10Base2/10Base5

Data technology



Type	Version	Pack.	Weight	Art. No.	Price
		pcs	kg/% pc		price/pc
<b>Twinax-AS4/FF-B</b>	Basic protection	1	25.000	<b>5082 53 6</b>	
<b>Twinax-AS4/MF-C</b>	Combi protection	1	25.000	<b>5082 54 4</b>	
<b>Twinax-AS4/MF-F</b>	Fine protection	1	25.000	<b>5082 55 2</b>	



Data line protection device for coaxial Ethernet network systems.

- In aluminium housing
- With Twinax connector
- Simple installation with adapter plug
- Two-stage protection circuit

			Twinax-AS4/FF-B	Twinax-AS4/MF-C	Twinax-AS4/MF-F
U max AC	<b>U<sub>c</sub></b>	V	122	4.2	4.2
U max DC	<b>U<sub>c</sub></b>	V	175	6.2	6.2
LPZ			0-2	0-3	1-3
Pulsed current (10/350)	<b>I<sub>imp</sub></b>	kA	2	2	-
Nominal discharge current (8/20)	<b>I<sub>n</sub></b>	kA	15	15	10 / 0.5
Transmission frequency		f	950 MHz	110 MHz	200 MHz
Insertion loss	a/dB	a/dB	0.2 at 10 MHz	0.2 at 10 MHz	0.2 at 10 MHz
Series resistance	R	Ohm	-	4.7	-
Protection level (sym.) with In C2			≤750 V	≤750 V	≤750 V
Protection level (asym.) with In C2			≤500 V	≤12 V	≤12 V
Protection level (asym.) with 1 kV/μs C3			≤500 V	≤8 V	≤8 V
Protection level			IP40	IP40	IP40
Plug-in system			Twinax-Co. f/f	Twinax-Co.m/f	Twinax-Co. m/f