

PMA EMC System

Cable Protection System providing electro-magnetic shielding

EMC System

Introduction

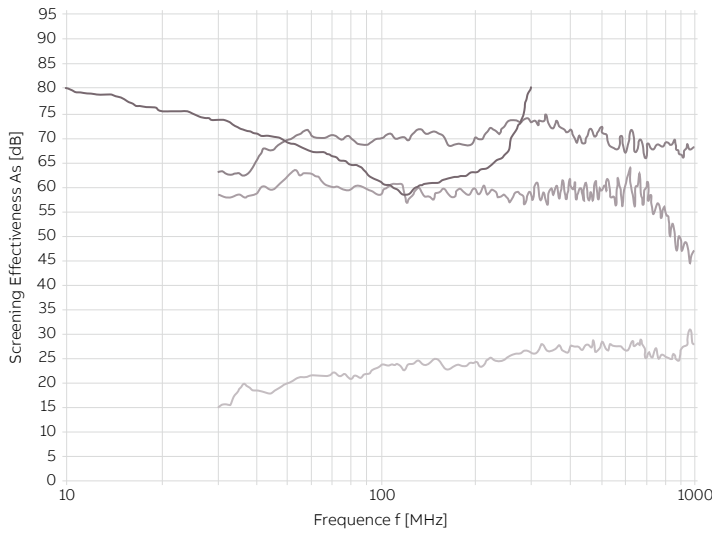
The PMA EMC System provides an additional function within the PMA Cable Protection System, offering high quality shielding against electro-magnetic signals over and above the mechanical cable protection. The EMC product line includes screening braids (tin-plated copper and hybrid braids) and a range of patented termination fittings (metallic components in nickel plated aluminium or nickel plated brass). The EMC system can be combined with any type of PMA conduit to provide the mechanical protection.



Transfer impedance

The F.CK, F.CU and F.HY screening braids provide excellent shielding for electro-magnetic signals. The patented EMC fittings allow a low impedance 360° termination of the braid preventing stray signals and an earth connection via the termination thread, in addition to the standard water and dust tight conduit termination.

— 01 Screening effectiveness of PMA screening braid (typical values).

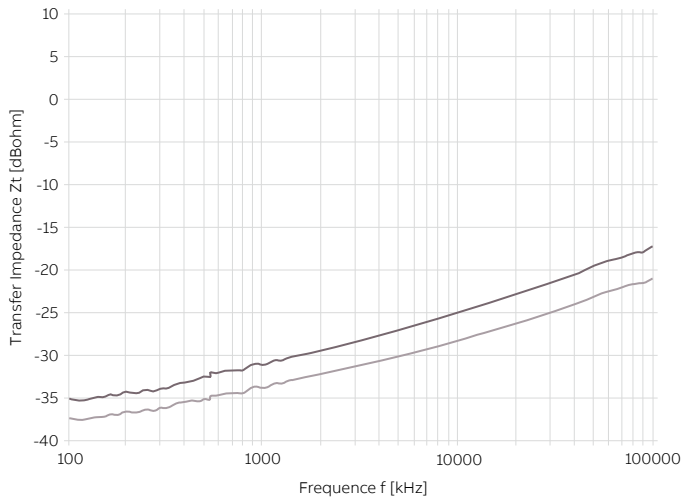


Screening Effectiveness As (according to IEC 96-1)

- F.HY
- F.CK
- F.CU
- MEPLA*

* MEPLA is a standard metal plastic conduit.

— 02 Transfer impedance between housing PMA-EMCFIX in conjunction with PMA screening braid (typical values).



Transfer Impedance based on the Triaxial-Methode (Vector Analyzer MS3606B)

- HFAK/HFA
- VEM/VIM

EMC System

Metal and polyester braids



F.CK – Screening braid

- Finest tin-plated copper wires
- Delivered on tube former
- Coverage: > 90%

| Order No. | NW | Braid specification | Cross section mm ² | Operative range | | Weight net per 100 m* |
|-----------|------|---------------------|-------------------------------|-----------------|---------|-----------------------|
| | | | | min. Ø | max. Ø | |
| F.CK.03 | 3 | 16 x 5 x 0.13 | 1.06 | 2.5 mm | 3.5 mm | 1.3 kg |
| F.CK.04 | 4 | 16 x 7 x 0.13 | 1.48 | 3.0 mm | 5.0 mm | 1.8 kg |
| F.CK.06 | 6 | 24 x 7 x 0.13 | 2.22 | 4.5 mm | 7.0 mm | 2.6 kg |
| F.CK.10 | 10 | 24 x 11 x 0.13 | 3.50 | 7.0 mm | 12.0 mm | 4.1 kg |
| F.CK.12.5 | 12.5 | 24 x 14 x 0.13 | 4.45 | 11.0 mm | 13.0 mm | 5.1 kg |
| F.CK.15 | 15 | 24 x 14 x 0.15 | 5.93 | 13.0 mm | 18.0 mm | 7.0 kg |
| F.CK.20 | 20 | 48 x 10 x 0.15 | 8.48 | 16.0 mm | 35.0 mm | 8.9 kg |
| F.CK.25 | 25 | 48 x 13 x 0.15 | 11.02 | 22.0 mm | 40.0 mm | 12.1 kg |
| F.CK.30 | 30 | 48 x 20 x 0.15 | 16.96 | 27.0 mm | 44.0 mm | 18.8 kg |
| F.CK.35 | 35 | 48 x 20 x 0.15 | 16.96 | 35.0 mm | 50.0 mm | 19.1 kg |
| F.CK.50 | 50 | 36 x 14 x 0.30 | 35.62 | 40.0 mm | 60.0 mm | 40.1 kg |

*without tube former

Technical data

Typical screening values: 65–75 dB at 100 MHz

Due to tube former: no fold up of braid, easier processing and installation

Temperature range: –65 °C to +150 °C

EMC System

Metal and polyester braids



F.CU – Screening braid

- Finest tin-plated copper wires
- Coverage: > 65%

| Order No. | NW | Braid specification | Cross section mm ² | Operative range | | Weight net per 100 m |
|-----------|----|---------------------|-------------------------------|-----------------|---------|----------------------|
| | | | | min. Ø | max. Ø | |
| F.CU.01 | 1 | 16 x 4 x 0.10 | 0.5 | 1.0 mm | 3.0 mm | 0.5 kg |
| F.CU.04 | 4 | 24 x 7 x 0.10 | 1.3 | 3.0 mm | 8.0 mm | 1.3 kg |
| F.CU.10 | 10 | 24 x 11 x 0.10 | 2.0 | 4.0 mm | 10.0 mm | 2.6 kg |
| F.CU.12 | 12 | 36 x 11 x 0.10 | 3.1 | 6.0 mm | 15.0 mm | 2.9 kg |
| F.CU.20 | 20 | 36 x 8 x 0.15 | 5.1 | 12.0 mm | 25.0 mm | 4.7 kg |
| F.CU.40 | 40 | 48 x 7 x 0.25 | 16.5 | 24.0 mm | 49.0 mm | 22.3 kg |
| F.CU.50 | 50 | 48 x 9 x 0.30 | 30.5 | 45.0 mm | 55.0 mm | 28.2 kg |

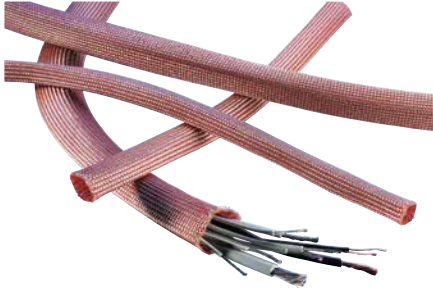
Technical data

Typical screening values: 60–70 dB at 100 MHz

Temperature range: –65 °C to +150 °C

EMC System

Metal and polyester braids



F.HY – Hybrid screening braid, very flexible, lightweight

- Finest tin-plated copper wires mixed with polyester monofilament
- Coverage: > 95%

| Order No. | Fits to conduit size NW | Operative range | | Weight net (without tube former) per 100 m |
|-----------|-------------------------|-----------------|---------|--|
| | | min. Ø | max. Ø | |
| F.HY.10* | 10 | 8.0 mm | 13.0 mm | 4.3 kg |
| F.HY.12* | 12 | 10.0 mm | 15.0 mm | 4.5 kg |
| F.HY.15 | 17 | 12.0 mm | 18.0 mm | 6.8 kg |
| F.HY.20 | 23 | 19.0 mm | 27.0 mm | 7.2 kg |
| F.HY.35 | 29 | 30.0 mm | 40.0 mm | 12.0 kg |
| F.HY.40 | 36, 48 | 30.0 mm | 50.0 mm | 17.0 kg |

*with tube former

Technical data

Typical screening values: 45 to 67 dB

Very high flexibility, for dynamic applications

Excellent abrasion and vibration resistance

Free from halogens

Colour: metal/red

Temperature range: -40 °C to +150 °C

EMC System

Connectors

PMA EMC connectors are designed for optimal termination of the PMA tinned copper screening braids F.CK, F.CU and the hybrid screening braid F.HY. Partially they can also be used to terminate the shield of screened cables and wires.

The connectors are used to be combined with PMA conduits for flexible protection of screened cables and wires or pre-assembled cable looms against mechanical damage.

General technical details

Material

- Connectors and accessories made of high-grade, specially formulated polyamide 6
- EMV threaded components made of nickel plated aluminium
- Strain relief components made of nickel plated brass

- Free from halogens, REACH + RoHS compliant
- Self-extinguishing
- Temperature range: $-40\text{ }^{\circ}\text{C}$ to $+105\text{ }^{\circ}\text{C}$, short-term to $+160\text{ }^{\circ}\text{C}$

Characteristics

- 360° braid termination: high degree of safety in case of short-circuiting
- Low coupling resistances, low transfer impedances
- Disturbance signals, such as electrical signals and magnetic fields will be discharged to the housing/casing
- Very high impact resistance
- High conduit pull-out strengths
- Vibration proof connection to PMA conduits
- Can be pre-assembled in cable harness systems



PMAFIX, IP68

IP68

IP68 static

IP67 dynamic

IP69 according to DIN 40050

- High sealing through additional seal cap
- For highest dynamic applications
- Content of delivery: Conduit sealing cap, locking clip and thread sealing element for male threads (O-ring and/or flat gasket)



PMAFIX Pro



PMAFIX, IP68 + WPS

IP68 + IP69

static + dynamic

- Highest sealing through fully closed system
- For highest dynamic applications
- Content of delivery: Fitting body with locking and sealing element, O-ring for male threads

EMC System

EMC connectors



VEMV – Connector straight, metric metal thread, long and short

| Order No. black, IP68 | Thread metric | Fits to NW | Fits to F.CK | Fits to F.CU | Fits to F.HY | Thread length | Overall length |
|--------------------------|------------------|---------------|-----------------|-----------------|-----------------|------------------|-------------------|
| BVEMV-M120-5 | M12 x 1.5 | 10 | 10 | 10 | – | 5.0 mm | 65.0 mm |
| BVEMV-M120-10 | M12 x 1.5 | 10 | 10 | 10 | – | 10.0 mm | 70.0 mm |
| BVEMV-M162-5 | M16 x 1.5 | 12 | 12.5 | 12 | 12 | 5.0 mm | 70.0 mm |
| BVEMV-M162-10 | M16 x 1.5 | 12 | 12.5 | 12 | 12 | 10.0 mm | 75.0 mm |
| BVEMV-M207-6 | M20 x 1.5 | 17 | 15 | 20 | 15 | 6.0 mm | 80.0 mm |
| BVEMV-M207-10 | M20 x 1.5 | 17 | 15 | 20 | 15 | 10.0 mm | 84.0 mm |
| BVEMV-M253-7 | M25 x 1.5 | 23 | 20 / (25) | 20 | 20 | 7.0 mm | 86.0 mm |
| BVEMV-M253-11 | M25 x 1.5 | 23 | 20 / (25) | 20 | 20 | 11.0 mm | 90.0 mm |
| BVEMV-M329-8 | M32 x 1.5 | 29 | 25 / (30) | 20 / (40) | 35 | 8.0 mm | 90.0 mm |
| BVEMV-M329-13 | M32 x 1.5 | 29 | 25 / (30) | 20 / (40) | 35 | 13.0 mm | 95.0 mm |
| BVEMV-M409-13 | M40 x 1.5 | 29 | 25 / (30) | 20 / (40) | 35 | 13.0 mm | 97.0 mm |
| BVEMV-M406-8 | M40 x 1.5 | 36 | 30 / (35) | 40 | 40 | 8.0 mm | 100.0 mm |
| BVEMV-M406-13 | M40 x 1.5 | 36 | 30 / (35) | 40 | 40 | 13.0 mm | 105.0 mm |
| BVEMV-M508-9 | M50 x 1.5 | 48 | 35 | 40 | 40 | 9.0 mm | 105.0 mm |
| BVEMV-M508-14 | M50 x 1.5 | 48 | 35 | 40 | 40 | 14.0 mm | 110.0 mm |
| BVEMV-M638-10 | M63 x 1.5 | 48 | 35 | 40 | 40 | 10.0 mm | 106.0 mm |
| BVEMV-M638-14 | M63 x 1.5 | 48 | 35 | 40 | 40 | 14.0 mm | 110.0 mm |

Technical data

Very suitable for the use with PMA screening braids

EMC System

EMC connectors



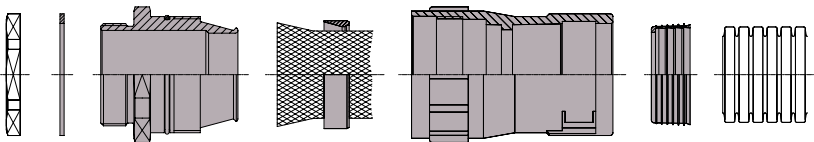
VEMV-SW – Connector straight, metric metal thread, positionable

| Order No. black, IP68 | Thread metric | Fits to NW | Fits to F.CK | Fits to F.CU | Fits to F.HY | Thread length | Overall length |
|--------------------------|------------------|---------------|-----------------|-----------------|-----------------|------------------|-------------------|
| BVEMV-M207SW-10 | M20 x 1.5 | 17 | 15 | 20 | 15 | 10.0 mm | 107.0 mm |
| BVEMV-M329SW-13 | M32 x 1.5 | 29 | 25 / (30) | 20 / (40) | 35 | 13.0 mm | 123.0 mm |
| BVEMV-M406SW-13 | M40 x 1.5 | 36 | 30 / (35) | 40 | 40 | 13.0 mm | 137.0 mm |
| BVEMV-M508SW-14 | M50 x 1.5 | 48 | 35 | 40 | 40 | 14.0 mm | 145.0 mm |
| BVEMV-M638SW-14 | M63 x 1.5 | 48 | 35 | 40 | 40 | 14.0 mm | 145.0 mm |

Technical data

Very suitable for the use with PMA screening braids

The fitting construction allows completed cable looms to be easily mounted without twisting conduit or cables



Content of delivery includes grey marked products.

EMC System

EMC connectors with female thread



VIMV – Connector straight, female UN thread for MIL-C5015

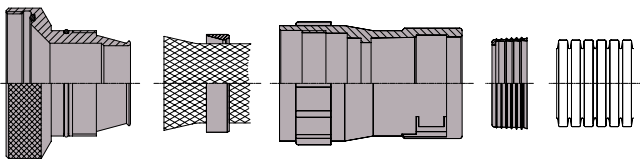
| Order No. black, IP68 | Thread UN | Fits to NW | Fits to F.CK | Fits to F.CU | Fits to F.HY | Thread length | Overall length |
|--------------------------|--------------|---------------|-----------------|-----------------|-----------------|------------------|-------------------|
| BVIMV-U182 | ¾"-20 | 12 | 12.5 | 12 | 12 | 10.0 mm | 75.0 mm |
| BVIMV-U212 | 7/8"-20 | 12 | 12.5 | 12 | 12 | 10.0 mm | 75.0 mm |
| BVIMV-U247 | 1"-20 | 17 | 15 | 20 | 15 | 10.0 mm | 85.0 mm |
| BVIMV-U353 | 1 7/16"-18 | 23 | 20 / (25) | 20 | 20 | 10.0 mm | 92.5 mm |
| BVIMV-U357 | 1 7/16"-18 | 17 | 15 | 20 | 15 | 10.0 mm | 87.0 mm |
| BVIMV-U433 | 1 3/4"-18 | 23 | 20 / (25) | 20 | 20 | 10.0 mm | 95.0 mm |
| BVIMV-U569 | 2 1/4"-16 | 29 | 25 / (30) | 20 / (40) | 35 | 10.0 mm | 95.0 mm |
| BVIMV-U566 | 2 1/4"-16 | 36 | 30 / (35) | 40 | 40 | 10.0 mm | 110.0 mm |
| BVIMV-U568 | 2 1/4"-16 | 48 | 35 | 40 | 40 | 10.0 mm | 110.0 mm |

Technical data

Suitable for MIL connector series C5015

Very suitable for the use with PMA screening braids

Female thread with O-ring



Content of delivery includes grey marked products.

EMC System

EMC connectors with female thread



VIMV – Connector straight, female UNEF thread for MIL-C26482G

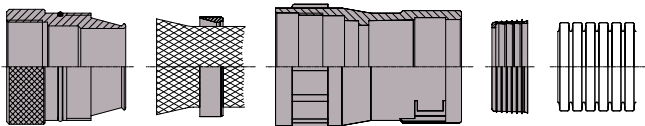
| Order No. black, IP68 | Thread UNEF | Fits to NW | Fits to F.CK | Fits to F.CU | Fits to F.HY | Thread length | Overall length |
|--------------------------|----------------|---------------|-----------------|-----------------|-----------------|------------------|-------------------|
| BVIMV-U212-14 | 7/8"-20 | 12 | 12.5 | 12 | 12 | 14.0 mm | 75.0 mm |
| BVIMV-U247-14 | 1"-20 | 17 | 15 | 20 | 15 | 14.0 mm | 90.0 mm |
| BVIMV-U267-14 | 1 1/16"-18 | 17 | 15 | 20 | 15 | 14.0 mm | 90.0 mm |
| BVIMV-U293-14 | 1 3/16"-18 | 23 | 20 | 20 | 20 | 14.0 mm | 90.0 mm |
| BVIMV-U303-14 | 1 1/4"-18 | 23 | 20 | 20 | 20 | 14.0 mm | 90.0 mm |
| BVIMV-U323-14 | 1 5/16"-18 | 23 | 20 | 20 | 20 | 14.0 mm | 90.0 mm |
| BVIMV-U359-14 | 1 7/16"-18 | 29 | 20 | 20 | 35 | 14.0 mm | 95.0 mm |

Technical data

Suitable for MIL connector series C26482G

Very suitable for the use with PMA screening braids

No seal on female thread side



Content of delivery includes grey marked products.

EMC System

EMC adapters



HFAK – Adapter with conical braid clamp, metric thread

| Order No. metric | Thread metric | | Fits to NW | Fits to F.CK | Fits to F.CU | ID min. | Thread length | Overall length |
|---------------------|---------------|-----------|---------------|-----------------|-----------------|------------|------------------|-------------------|
| | 1 | 2 | | | | | | |
| HFAK-M32/25-13 | M32 x 1.5 | M25 x 1.5 | 23 | 20 | 20 | 16.8 mm | 13.0 mm | 42.0 mm |
| HFAK-M40/32-13 | M40 x 1.5 | M32 x 1.5 | 29 | 20 / (25) | 20 | 22.4 mm | 13.0 mm | 51.0 mm |
| HFAK-M50/40-14 | M50 x 1.5 | M40 x 1.5 | 36 | 30, 50 (35) | 40 | 32.4 mm | 14.0 mm | 58.0 mm |
| HFAK-M63/63-14 | M63 x 1.5 | M63 x 1.5 | 48 | 35, 50 | 40 | 43.4 mm | 14.0 mm | 57.5 mm |

Technical data

Nickel-plated aluminium

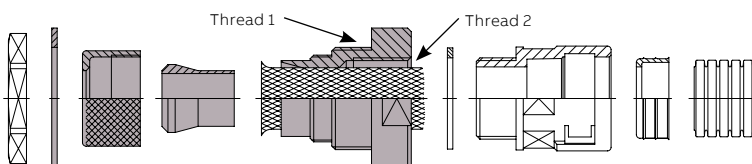
Very suitable for the use with PMA screening braids

Suitable with all PMA connectors

With flat gasket

Thread 1: on casing side

Thread 2: on PMA connector side



Content of delivery includes grey marked products.

EMC System

EMC connectors with strain relief



KEZ – Connector straight with strain relief, metric metal thread



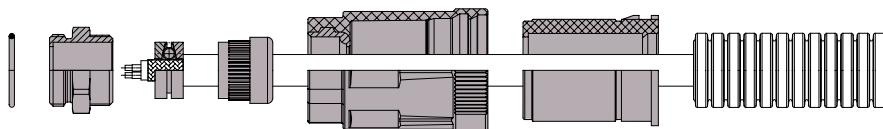
| Order No. black IP68 + IP69 | Thread metric | Fits to NW | Clamping range | Screen Ø | Ø max. | Thread length | Overall length |
|--------------------------------|------------------|---------------|-------------------|--------------|-----------|------------------|-------------------|
| NKEZ-M160/P2 | M16 x 1.5 | 10 | 5.0–8.0 mm | 2.5–6.0 mm | 25.0 mm | 6.0 mm | 54.5 mm |
| NKEZ-M160/P3 | M16 x 1.5 | 10 | 6.5–9.5 mm | 2.5–6.0 mm | 25.0 mm | 6.0 mm | 54.5 mm |
| NKEZ-M202/P1 | M20 x 1.5 | 12 | 4.0–6.5 mm | 2.5–6.5 mm | 29.0 mm | 6.5 mm | 61.0 mm |
| NKEZ-M202/P3 | M20 x 1.5 | 12 | 6.5–9.5 mm | 3.5–6.5 mm | 29.0 mm | 6.5 mm | 61.0 mm |
| NKEZ-M207/P3 | M20 x 1.5 | 17 | 6.5–9.5 mm | 3.5–6.5 mm | 35.5 mm | 6.5 mm | 66.0 mm |
| NKEZ-M207/P5 | M20 x 1.5 | 17 | 9.0–13.0 mm | 6.5–10.5 mm | 35.5 mm | 6.5 mm | 66.0 mm |
| NKEZ-M257/P3 | M25 x 1.5 | 17 | 6.5–9.5 mm | 3.0–8.0 mm | 35.5 mm | 7.5 mm | 67.5 mm |
| NKEZ-M257/P5 | M25 x 1.5 | 17 | 9.0–13.0 mm | 6.5–10.5 mm | 35.5 mm | 7.5 mm | 67.5 mm |
| NKEZ-M406/P4 | M40 x 1.5 | 36 | 20.0–25.0 mm | 18.5–25.5 mm | 60.5 mm | 8.0 mm | 99.0 mm |

Technical data

Pflitsch system UNI HF DICHT with UNI IRIS®-Spring

Sealing insert made of TPE-V

Very suitable for the use with shielded cables



Content of delivery includes grey marked products.

EMC System

EMC connectors with strain relief



KEZ – Connector straight with strain relief, metric metal thread

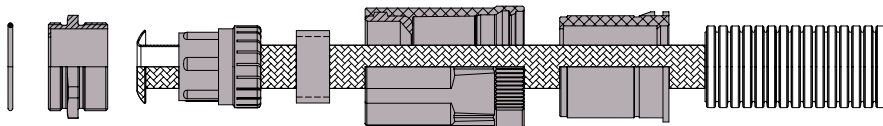


| Order No. black IP68 + IP69 | Thread metric | Fits to NW | Fits to F.CK | Fits to F.CU | Clamping range | Thread length | Overall length |
|--------------------------------|------------------|---------------|-----------------|-----------------|-------------------|------------------|-------------------|
| NKEZ-M160-10 | M16 x 1.5 | 10 | 06 | 06/10 | 5.0–9.0 mm | 10.0 mm | 63.0 mm |
| NKEZ-M162-10 | M16 x 1.5 | 12 | 10/12.5/15 | 10/12 | 5.0–9.0 mm | 10.0 mm | 68.5 mm |
| NKEZ-M202-10 | M20 x 1.5 | 12 | 10/12.5/15 | 10/12 | 9.0–13.0 mm | 10.0 mm | 70.5 mm |
| NKEZ-M207-10 | M20 x 1.5 | 17 | 12.5/15 | 12/20 | 9.0–13.0 mm | 10.0 mm | 76.0 mm |
| NKEZ-M253-11 | M25 x 1.5 | 23 | 15/20/25 | 20 | 11.0–16.0 mm | 11.0 mm | 80.0 mm |
| NKEZ-M257-11 | M25 x 1.5 | 17 | 12.5/15 | 12/20 | 11.0–16.0 mm | 11.0 mm | 78.5 mm |
| NKEZ-M323-13 | M32 x 1.5 | 23 | 15/20/25 | 20 | 14.0–21.0 mm | 13.0 mm | 85.5 mm |
| NKEZ-M329-13 | M32 x 1.5 | 29 | 20/25/30 | 20 | 14.0–21.0 mm | 13.0 mm | 90.0 mm |
| NKEZ-M406-13 | M40 x 1.5 | 36 | 25/30/35 | 40 | 19.0–27.0 mm | 13.0 mm | 98.5 mm |
| NKEZ-M409-13 | M40 x 1.5 | 29 | 20/25/30 | 20 | 19.0–27.0 mm | 13.0 mm | 93.0 mm |
| NKEZ-M506-14 | M50 x 1.5 | 36 | 25/30/35 | 40 | 24.0–35.0 mm | 14.0 mm | 106.5 mm |
| NKEZ-M508-14 | M50 x 1.5 | 48 | 30/35 | 40 | 24.0–35.0 mm | 14.0 mm | 112.5 mm |
| NKEZ-M638-14 | M63 x 1.5 | 48 | 35 | 40 | 32.0–42.0 mm | 14.0 mm | 113.5 mm |

Technical data

PERFECT sealing ring made from NBR

Suitable for the use with PMA screening braids or with shielded cables



Content of delivery includes grey marked products.

EMC System

EMC connectors with strain relief



VEZ – Connector straight with strain relief, metric metal thread



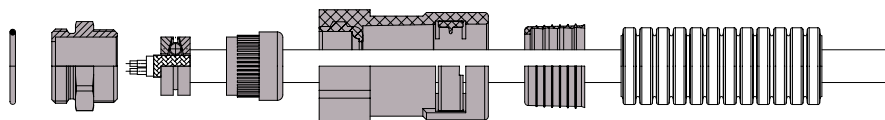
| Order No. black IP68 | Thread metric | Fits to NW | Clamping range | Screen \varnothing | \varnothing max. | Thread length | Overall length |
|----------------------|---------------|------------|----------------|----------------------|--------------------|---------------|----------------|
| NVEZ-M160V/P2 | M16 x 1.5 | 10 | 5.0–8.0 mm | 2.5–6.0 mm | 23.0 mm | 6.0 mm | 49.5 mm |
| NVEZ-M160V/P3 | M16 x 1.5 | 10 | 6.5–9.5 mm | 2.5–6.0 mm | 23.0 mm | 6.0 mm | 49.5 mm |
| NVEZ-M160V/P3/1 | M16 x 1.5 | 10 | 6.5–9.5 mm | 3.5–8.5 mm | 26.5 mm | 6.0 mm | 60.0 mm |
| NVEZ-M202V/P1 | M20 x 1.5 | 12 | 4.0–6.5 mm | 2.5–6.5 mm | 26.5 mm | 6.5 mm | 54.0 mm |
| NVEZ-M202V/P3 | M20 x 1.5 | 12 | 6.5–9.5 mm | 3.5–6.5 mm | 28.5 mm | 6.5 mm | 54.0 mm |
| NVEZ-M202V/P5 | M20 x 1.5 | 12 | 9.0–13.0 mm | 6.5–10.5 mm | 26.0 mm | 6.5 mm | 54.0 mm |
| NVEZ-M207V/P3 | M20 x 1.5 | 17 | 6.5–9.5 mm | 3.5–6.5 mm | 31.0 mm | 6.5 mm | 60.0 mm |
| NVEZ-M207V/P5 | M20 x 1.5 | 17 | 9.0–13.0 mm | 6.5–10.5 mm | 31.0 mm | 6.5 mm | 60.0 mm |
| NVEZ-M257V/P3 | M25 x 1.5 | 17 | 6.5–9.5 mm | 3.0–8.0 mm | 31.0 mm | 7.5 mm | 61.5 mm |
| NVEZ-M257V/P5 | M25 x 1.5 | 17 | 9.0–13.0 mm | 6.5–10.5 mm | 31.0 mm | 7.5 mm | 61.5 mm |
| NVEZ-M406V/P4 | M40 x 1.5 | 36 | 20.0–25.0 mm | 18.5–25.5 mm | 60.5 mm | 8.0 mm | 98.5 mm |

Technical data

Pflitsch system UNI HF DICHT with UNI IRIS®-Spring

Sealing insert made of TPE-V

Very suitable for the use with shielded cables



Content of delivery includes grey marked products.

EMC System

EMC connectors with strain relief



VEZ – Connector straight with strain relief, metric metal thread

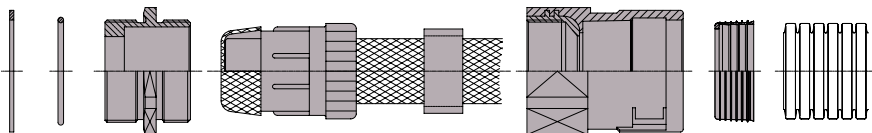


| Order No. black IP68 | Thread metric | Fits to NW | Fits to F.CK | Fits to F.CU | Clamping range | Thread length | Overall length |
|----------------------|---------------|------------|--------------|--------------|----------------|---------------|----------------|
| NVEZ-M120V-10 | M12 x 1.5 | 10 | 06 | 06/10 | 3.0–6.0 mm | 10.0 mm | 53.5 mm |
| NVEZ-M160V-10 | M16 x 1.5 | 10 | 06 | 06/10 | 5.0–9.0 mm | 10.0 mm | 60.0 mm |
| NVEZ-M162V-10 | M16 x 1.5 | 12 | 10/12.5/15 | 10/12 | 5.0–9.0 mm | 10.0 mm | 61.5 mm |
| NVEZ-M202V-10 | M20 x 1.5 | 12 | 10/12.5/15 | 10/12 | 9.0–13.0 mm | 10.0 mm | 64.0 mm |
| NVEZ-M207V-10 | M20 x 1.5 | 17 | 12.5/15 | 12/20 | 9.0–13.0 mm | 10.0 mm | 70.0 mm |
| NVEZ-M253V-11 | M25 x 1.5 | 23 | 15/20/25 | 20 | 11.0–16.0 mm | 11.0 mm | 78.5 mm |
| NVEZ-M257V-11 | M25 x 1.5 | 17 | 12.5/15 | 12/20 | 11.0–16.0 mm | 11.0 mm | 72.5 mm |
| NVEZ-M323V-13 | M32 x 1.5 | 23 | 15/20/25 | 20 | 14.0–21.0 mm | 13.0 mm | 83.0 mm |
| NVEZ-M329V-13 | M32 x 1.5 | 29 | 20/25/30 | 20 | 14.0–21.0 mm | 13.0 mm | 80.0 mm |
| NVEZ-M406V-13 | M40 x 1.5 | 36 | 25/30/35 | 40 | 19.0–27.0 mm | 13.0 mm | 97.0 mm |
| NVEZ-M409V-13 | M40 x 1.5 | 29 | 20/25/30 | 20 | 19.0–27.0 mm | 13.0 mm | 83.0 mm |
| NVEZ-M506V-14 | M50 x 1.5 | 36 | 25/30/35 | 40 | 24.0–35.0 mm | 14.0 mm | 106.0 mm |
| NVEZ-M508V-14 | M50 x 1.5 | 48 | 30/35 | 40 | 24.0–35.0 mm | 14.0 mm | 105.0 mm |
| NVEZ-M638V-14 | M63 x 1.5 | 48 | 35 | 40 | 32.0–42.0 mm | 14.0 mm | 106.0 mm |

Technical data

PERFECT sealing ring made from NBR

Suitable for the use with PMA screening braids or with shielded cables



Content of delivery includes grey marked products.

NVEZ connectors with PG thread on request.

EMC System

Accessories



MM – Hexagonal lock nut for EMC applications, metric thread

- For earthing in EMC applications

| Order No. metal/metric | Fits to thread metric | Wrench size | Height |
|---------------------------|--------------------------|----------------|--------|
| GMM-M12/EMV | M12 x 1.5 | 15 mm | 4.7 mm |
| GMM-M16/EMV | M16 x 1.5 | 19 mm | 4.7 mm |
| GMM-M20/EMV | M20 x 1.5 | 24 mm | 4.7 mm |
| GMM-M25/EMV | M25 x 1.5 | 30 mm | 5.2 mm |
| GMM-M32/EMV | M32 x 1.5 | 36 mm | 5.7 mm |
| GMM-M40/EMV | M40 x 1.5 | 46 mm | 6.5 mm |
| GMM-M50/EMV | M50 x 1.5 | 60 mm | 6.5 mm |
| GMM-M63/EMV | M63 x 1.5 | 70 mm | 7.0 mm |

Technical data

Nickel-plated brass

With cutting edges to penetrate varnish, powder coatings and anodised surfaces ensuring optimum electrical contact in EMC applications

Maximum possible torque

Safe system connection

EMC System

Accessories



GPS – System support, one-piece, stackable

| Order No. | Fits to conduit size | | Width x Height x Depth |
|------------|----------------------|--------|------------------------|
| | NW | metric | |
| BGPS-12/01 | 12 | 16 | 70.0 x 51.0 x 30.0 mm |
| BGPS-17 | 17 | 20 | 70.0 x 51.0 x 30.0 mm |
| BGPS-23 | 23 | 25 | 70.0 x 51.0 x 30.0 mm |
| BGPS-29 | 29 | 32 | 85.0 x 65.0 x 30.0 mm |
| BGPS-36 | 36 | 40 | 85.0 x 65.0 x 30.0 mm |
| BGPS-48 | 48 | 50 | 115.0 x 92.5 x 30.0 mm |
| BGPS-56 | 56 | – | 115.0 x 92.5 x 30.0 mm |

Technical data

Heavy design, high retention forces

Applicable with standard metal C rails

Clasp for easy pre-mounting and final assembly

Especially suitable for dyn. applic. due to rounded edges

The following nominal widths can be combined for stacking: NW 12 with NW 17 + 23, NW 17 with NW 23, NW 29 with NW 36, NW 48 with NW 56

EMC System

Accessories



GL – Tube clamp, one-piece

| Order No. black | Order No. grey | Fits to conduit size | | Width | Fixing screws |
|--------------------|-------------------|----------------------|--------|---------|------------------|
| | | NW | metric | | |
| BGL-07 | SGL-07 | 07 | 10 | 25.0 mm | 1 x M4 |
| BGL-10 | SGL-10 | 10 | 12 | 27.0 mm | 1 x M4 |
| BGL-12 | SGL-12 | 12 | 16 | 31.0 mm | 1 x M4 |
| BGL-17 | SGL-17 | 17 | 20 | 39.5 mm | 1 x M5 |
| BGL-23 | SGL-23 | 23 | 25 | 49.0 mm | 1 x M5 |
| BGL-29 | SGL-29 | 29 | 32 | 57.0 mm | 1 x M6 |

Technical data

Integrated rib provides axial strain relief

Allows turning of the conduit, thus avoiding torsion stresses

Pre-fixation on the conduit possible

EMC System

Accessories



GH – Tube clamp, one-piece

| Order No. black | Order No. grey | Fits to conduit size | | Width | Fixing screws |
|--------------------|-------------------|----------------------|--------|---------|------------------|
| | | NW | metric | | |
| BGH-23 | SGH-23 | 23 | 25 | 16.0 mm | 2 x M5 |
| BGH-29 | SGH-29 | 29 | 32 | 19.0 mm | 2 x M6 |
| BGH-36 | SGH-36 | 36 | 40 | 24.0 mm | 2 x M6 |
| BGH-48 | SGH-48 | 48 | 50 | 24.0 mm | 2 x M6 |

Technical data

Integrated rib provides axial strain relief

Allows turning of the conduit, thus avoiding torsion stresses

Pre-fixation on the conduit possible

Allows solid fixation with 2 screws

EMC System

Accessories



SGB – Tube clamp

- For fixation of static conduits

| Order No. | Fits to conduit size | | Width | Fixing screws |
|-----------|----------------------|--------|---------|---------------|
| | NW | metric | | |
| SGB-07 | 07 | 10 | 13.0 mm | 1 x M4 |
| SGB-09 | 10 | 12 | 13.0 mm | 1 x M4 |
| SGB-11 | 12 | 16 | 13.0 mm | 1 x M4 |
| SGB-16 | 17 | 20 | 15.0 mm | 1 x M5 |
| SGB-21 | 23 | 25 | 15.0 mm | 1 x M5 |
| SGB-29 | 29 | 32 | 19.0 mm | 1 x M6 |
| SGB-36 | 36 | 40 | 19.0 mm | 1 x M6 |
| SGB-48 | 48 | 50 | 19.0 mm | 1 x M6 |

Technical data

Galvanized steel

Elastomer profile free from halogens (EPDM)

Smooth connection to PMA conduits

Good resistance to ozone and ageing

Temperature range: -40 °C to +120 °C

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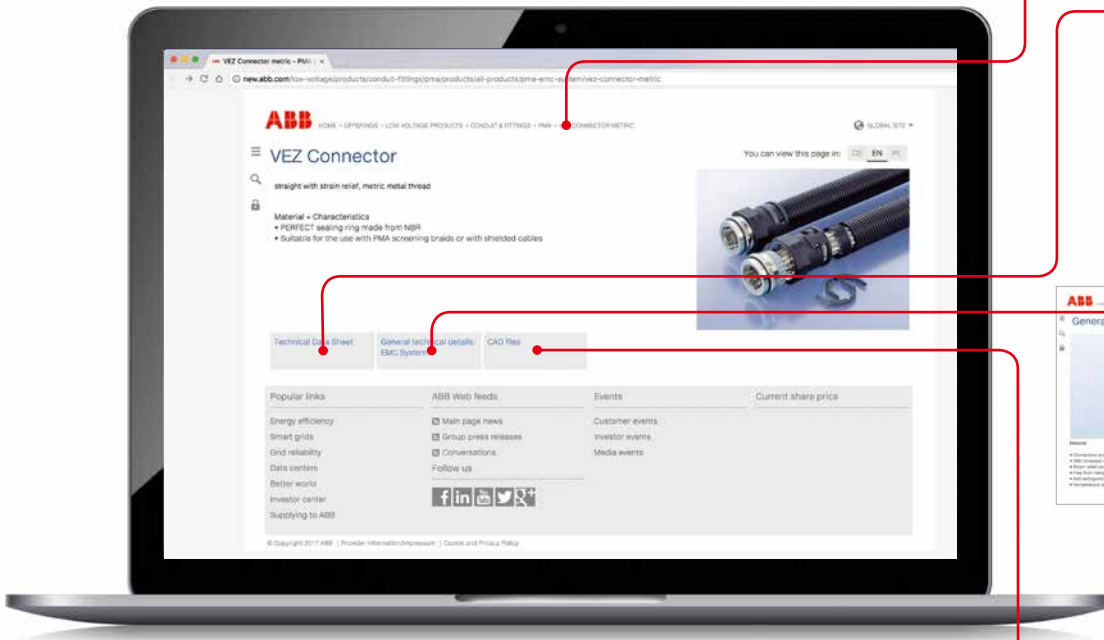




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