



NORRES Schlauchtechnik - Kabelschutz für alle Fälle/ Cable protection for all applications



Als führender Hersteller von Schläuchen und Schlauchsystemen schützt NORRES Kabel und Leitungen seit 1889 erfolgreich für die unterschiedlichsten Einsatzzwecke und alle Branchen. Hochwertige Qualitätsprodukte, technische Innovationen, ein exzellenter Service und die Fokussierung auf die Kunden bilden die Schwerpunkte des Unternehmens. NORRES hat eines der breitesten Sortimente vorrätig, in fast allen Fällen ab Lager. Wir bieten Ihnen ein rundes Gesamtpaket wenn es um Kabelschutz Systeme geht - einfach: **simply flexible!**

As a leading manufacturer of conduits and conduit systems, NORRES has been protecting cables and lines successfully for a variety of applications spanning all branches of industry since 1889. High-quality products, technological innovations, first-class service and a clear focus on our customers are the cornerstones of NORRES' business success. NORRES stocks one of the broadest ranges of any supplier, with almost all articles available directly. We provide a complete service package encompassing every aspect of cable protection systems - **simply flexible!**

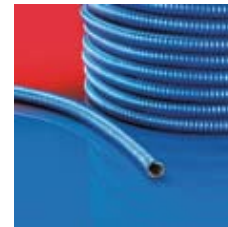
Burkhard Mollen

Geschäftsführer/Managing Director

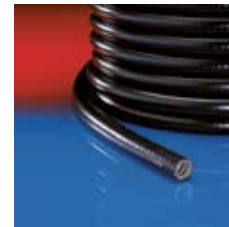
Kabelschutz Systeme/ Cable Protection Systems



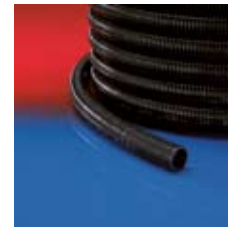
Kunststoffschläuche
Plastic conduits



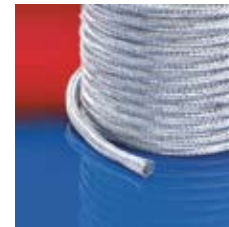
Metallschläuche
MeC = MetalConduit



NORTIGHT® Schläuche
NORTIGHT® conduits



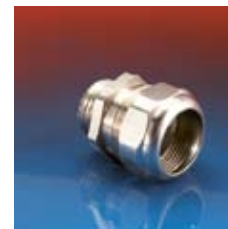
NORDUC® Schläuche
NORDUC® conduits



Hohlgeflechschläuche
Kunststoffspiralbänder
Isolierschläuche
Plastic spiral bands
hollow braidings
insulating conduits



Anschlusssteile
Kunststoffschläuche
Connectors
plastic conduits



Anschlusssteile
Metallschläuche
Connectors
metal conduits



Anschlusssteile
NORTIGHT® Schläuche
Connectors
NORTIGHT® conduits



Anschlusssteile
NORDUC® Schläuche
Connectors
NORDUC® conduits



Zubehör
Accessories

Ich bitte um die Zusendung eines Angebotes für/ Please send me an offer for:

Artikel/ Abmessung/ Menge/ Article/ size/ quantity

Artikel/ Abmessung/ Menge/ Article/ size/ quantity

Artikel/ Abmessung/ Menge/ Article/ size/ quantity

Ich hätte gerne weitere Informationen/ I would like further information:

**Ich bitte um ein persönliches Beratungsgespräch:
Please contact me to arrange a personal meeting:**

Unternehmen/ Company

Name/ Name

Straße/ Street

PLZ/ Ort/ Postcode/ City

Telefon/ Fax/ Phone/ Fax

E-Mail/ e-mail

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Sichern • Signalisieren • Steuern • Schalten



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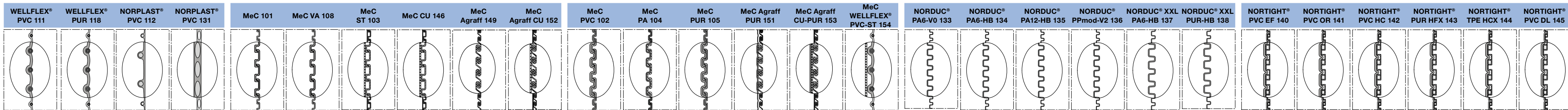


NORRES KABELSCHUTZ SYSTEME
 NORRES CABLE PROTECTION SYSTEMS

simply flexible



KABELSCHUTZ SYSTEME
CABLE PROTECTION SYSTEMS



| Schläuche aus/Conduits made of | Kunststoff/Plastic | | | | Metall/Metal | | | | | | Metall und Kunststoff/Metal and Plastic | | | | | | Kunststoff/Plastic | | | | | | Metall und Kunststoff/ Metal and Plastic | | | | | |
|-------------------------------------------------------|--------------------|-----------|-----------|-----------|--------------|-------|---------|---------|---------|---------|-----------------------------------------|------------|-----------|-----------|-----------|-----------|--------------------|------------|------------|-------------|------------|------------|------------------------------------------|------------|------------|------------|------------|------------|
| Schutzart des Schlauches/Conduit IP rate | 68 | 68 | 68 | 68 | 40 | 40 | 40 | 40 | 40 | 40 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 |
| Abmessungen AD in mm oder "/>Dimensions OD in mm or " | 10 - 56 | 10 - 56 | 10 - 56 | 14 - 56 | 10-56 | 10-45 | 10 - 56 | 10 - 56 | 10 - 56 | 10 - 56 | 10 - 56 | 10 - 56 | 10 - 56 | 10 - 56 | 10 - 56 | 14 - 56 | 11,7 - 54 | 11,7 - 54 | 11,7 - 54 | 11,6 - 53,6 | 79,2 - 106 | 79,2 - 106 | 1/4" - 2" | 1/4" - 2" | 1/4" - 2" | 1/4" - 2" | 3/8" - 2" | 3/8" - 2" |
| Temperaturbereich in °C/Temperature range in °C | -20 - +70 | -40 - +90 | -20 - +80 | -20 - +80 | +400 | +600 | +250 | +150 | +400 | +150 | -20 - +70 | -50 - +110 | -40 - +80 | -40 - +80 | -40 - +80 | -20 - +70 | -40 - +120 | -40 - +120 | -40 - +100 | -40 - +135 | -40 - +100 | -40 - +90 | -25 - +70 | -15 - +100 | -45 - +105 | -45 - +105 | -55 - +145 | -40 - +105 |
| Flammbeständigkeit/Flame resistance | * | ** | * | * | **** | **** | **** | **** | **** | **** | * | *** | ** | ** | ** | * | **** | ** | *** | ** | ** | ** | ** | ** | ** | ** | ** | ** |
| Flexibilität/Flexibility | **** | **** | *** | ** | *** | *** | *** | *** | *** | *** | *** | ** | *** | *** | ** | **** | ** | ** | *** | ** | * | *** | ** | ** | ** | ** | ** | ** |
| Biegeradius/Bending radius | **** | **** | *** | ** | **** | **** | **** | **** | *** | *** | **** | ** | *** | *** | *** | **** | ** | ** | *** | *** | * | ** | ** | ** | ** | ** | ** | ** |
| Querdruckbelastbarkeit/Cross pressure resistance | ** | ** | ** | ** | ** | *** | ** | ** | *** | *** | ** | ** | ** | *** | *** | ** | ** | ** | ** | *** | *** | * | *** | *** | *** | *** | *** | **** |
| Zugfestigkeit/Tensile strength | ** | ** | ** | ** | ** | ** | **** | **** | **** | **** | ** | ** | ** | **** | **** | *** | ** | ** | ** | ** | ** | * | *** | *** | *** | *** | *** | *** |
| Wechselbiegefestigkeit/Bending strength | **** | **** | *** | ** | ** | ** | *** | ** | *** | *** | ** | ** | ** | *** | *** | **** | *** | *** | **** | *** | * | *** | ** | ** | ** | ** | ** | ** |
| Äußere Glätte/Exterior smoothness | * | * | * | **** | * | * | *** | *** | * | *** | ** | ** | ** | ** | **** | * | * | * | * | * | * | * | *** | *** | *** | *** | *** | *** |
| Innere Glätte/Interior smoothness | * | * | **** | **** | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Ölbeständigkeit/Oil resistance | ** | **** | ** | ** | **** | **** | **** | **** | **** | **** | ** | **** | **** | **** | **** | ** | **** | **** | **** | **** | **** | **** | ** | **** | ** | **** | ** | *** |
| Lösemittel Beständigkeit/Solvent resistance | * | ** | * | * | **** | **** | **** | **** | **** | * | * | * | ** | ** | ** | * | * | * | ** | ** | * | ** | * | * | * | ** | * | * |
| EMV Abschirmfaktor/EMC Screening factor | | | | | * | * | * | **** | ** | **** | * | * | * | ** | **** | | | | | | | * | * | * | * | * | * | |
| EX-geeignet/EX-suitable | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | | | | | | | | | | | | | | | |
| Schienenfahrzeuge/Railway Industry | | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | | | | | | | ✓ | | | | | | | | | | | |

EMV Abschirmfaktor **** = bis 30 MHz nach EN 50289-1-6 bis zu 80 dB/ EMC Screening factor **** = up to 30 MHz acc. to EN 50289-1-6 up to 80 dB
EX-geeignet, gemäß DIN VDE 0615, EN 60079-14 und EN 61241-14/ EX-suitable, acc. to DIN VDE 0615, EN 60079-14 and 61241-14

***** = Unglaublich hoch/Outstanding • **** = Sehr hoch/Extremely high *** = Hoch/high • ** = Mittel/middle • * = Gering/low

| Anschlusssteile/Connector | Kunststoff/Plastic | | | | Metall/Metal | | | | | | Metall und Kunststoff/Metal and Plastic | | | | | | Kunststoff/Plastic | | | | | | Metall und Kunststoff/ Metal and Plastic | | | | | | |
|---------------------------|--------------------|-------|-------|-------|--------------|-------|-------|-------|-------|-------|-----------------------------------------|-------|-------|-------|-------|-------|--------------------|-------|------|-------|-------|-------|------------------------------------------|-------|-------|-------|-------|-------|-------|
| ADKK 180 M/P | IP 54 | IP 54 | IP 54 | IP 54 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | A-GK65-A 183 M/P | IP 65 | IP65 | IP 65 | -- | -- | C 196 M/P | IP 67 | IP 67 | IP 67 | IP 67 | IP 67 | IP 67 |
| ADKKH 181 | IP 54 | IP 54 | IP 54 | IP 54 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | A-45K65-A 184 M/P | IP 65 | IP65 | IP 65 | -- | -- | CB45 197 M/P | IP 67 | IP 67 | IP 67 | IP 67 | IP 67 | IP 67 |
| AS 170 M/P | IP 40 | IP 40 | IP 40 | IP 40 | IP 40 | IP 40 | -- | -- | -- | -- | IP 40 | IP 40 | IP 40 | -- | -- | -- | A-90K65-A 185 M/P | IP 65 | IP65 | IP 65 | -- | -- | CB90 198 M/P | IP 67 | IP 67 | IP 67 | IP 67 | IP 67 | IP 67 |
| ASK 171 M/P | IP 54 | IP 54 | IP54 | -- | IP 40 | IP 40 | -- | -- | -- | -- | IP 54 | IP 54 | IP 54 | -- | -- | -- | A-GKZ65-A 186 M/P | IP 65 | IP65 | IP 65 | -- | -- | | | | | | | |
| AD 172 M/P | IP 40 | IP 40 | IP 40 | IP40 | IP 40 | IP 40 | -- | -- | -- | -- | IP 40 | IP 40 | IP 40 | -- | -- | -- | XXL A-GK54-F 188 | -- | -- | -- | IP 54 | IP 54 | | | | | | | |
| ADK 173 M/P | IP 54 | IP 54 | IP 54 | -- | IP 40 | IP 40 | -- | -- | -- | -- | IP 54 | IP 54 | IP 54 | -- | -- | -- | XXL A-90K54-F 189 | -- | -- | -- | IP 54 | IP 54 | | | | | | | |
| ADH 174 | IP 40 | IP 40 | IP 40 | -- | IP 40 | IP 40 | -- | -- | -- | -- | IP 40 | IP 40 | IP 40 | -- | -- | -- | XXL AZ-K 190 | -- | -- | -- | IP 54 | IP 54 | | | | | | | |
| AUK 158 M/P | IP 67 | IP 67 | IP 67 | IP 67 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | | | | | | | | | | |
| AU 175 M/P | IP 54 | IP 54 | IP 54 | -- | IP 40 | IP 40 | -- | -- | -- | -- | IP 54 | IP 54 | IP 54 | -- | -- | -- | | | | | | | | | | | | | |
| AUH 176 | IP 54 | IP 54 | IP54 | -- | IP 40 | IP 40 | -- | -- | -- | -- | IP 54 | IP 54 | IP 54 | -- | -- | -- | | | | | | | | | | | | | |
| AUM 159 M/P | IP 67 | IP 67 | IP 67 | IP 67 | IP 40 | IP 40 | IP 40 | IP 40 | IP 40 | IP 40 | IP 67 | IP 67 | IP 67 | IP 67 | IP 67 | IP 54 | | | | | | | | | | | | | |
| ADM 178 P | -- | -- | -- | -- | IP 40 | IP 40 | -- | -- | -- | -- | IP 40 | IP 40 | IP 40 | -- | -- | -- | | | | | | | | | | | | | |
| MVU 179 P | -- | -- | -- | -- | IP 40 | IP 40 | -- | -- | -- | -- | IP 54 | IP 54 | IP 54 | -- | -- | -- | | | | | | | | | | | | | |

M= Metrisches Gewinde/M= Metric thread • P= PG Gewinde/P= PG thread
IP Schutzart Schlauch mit Anschlussstück/IP rate conduit with connector