

## ÖLFLEX® HEAT 205 SC

For very high and low temperature requirements

ÖLFLEX® HEAT 205 SC - FEP single core, robust, chemical resistant and space-saving, for use in machine and plant construction at temperatures: -100°C to +205°C

### Info

Now available as spools

Thermal and chemical resistance

Space and weight-saving



Good chemical resistance



Flame-retardant



Cold-resistant



Low weight



Oil-resistant



Acid-resistant



Temperature-resistant



UV-resistant

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You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

# ÖLFLEX® HEAT 205 SC

## Benefits

Small outer diameters for maximum saving of space and weight  
Resistant to contact with mostly all highly aggressive chemical media

## Application range

For use in environments with very high operating temperatures, heavy usage of chemical agents or confined spaces

Typical fields of application

- Control cabinets with high heat generation
- Measuring instruments
- Furnaces and brickworks
- Heating equipment and kitchen appliances
- Electric motor building
- Installations in the chemical industry

## Product features

Flame-retardant

ÖLFLEX® HEAT 205 made of FEP

- Outstanding resistance against acids, solvents, lacquers, petrol, oils and many other chemical media
- Difficult to inflame
- High dielectric strength and high abrasion resistance
- Low water absorption
- Resistant to microbes
- Adhesion free insulation materials
- Weather and ozone resistant
- Hydrophobic and dirt-repellent
- High elongation and tear resistance
- Resistant against hydraulic fluids

## Product Make-up

Fine-wire, tinned-copper conductor

FEP core insulation

FEP = fluorinated ethylene propylene

## Technical Data

Classification ETIM 5:

ETIM 5.0 Class-ID: EC000993

ETIM 5.0 Class-Description: Single core cable

Classification ETIM 6:

ETIM 6.0 Class-ID: EC000993

ETIM 6.0 Class-Description: Single core cable

Conductor stranding:

Fine wire acc. to VDE 0295, class 5 / IEC 60228 class 5 from 0.5 mm<sup>2</sup>

Minimum bending radius:

Fixed installation: 4 x outer diameter

Nominal voltage:

U0/U: 300/500 V

Test voltage:

2500 V

Temperature range:

Fixed installation: -100°C to +205°C

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## ÖLFLEX® HEAT 205 SC

### Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

Prices are net prices without VAT and surcharges. Sale to business customers only.

Other colours are available upon request

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| Article number      | Conductor cross-section (mm²) | Outer diameter [mm] | m/ring | m/spool | Core colour  | Copper index (kg/km) | Weight (kg/km) |
|---------------------|-------------------------------|---------------------|--------|---------|--------------|----------------------|----------------|
| ÖLFLEX® HEAT 205 SC |                               |                     |        |         |              |                      |                |
| 0080001             | 0.14                          | 1                   | 100    | -       | black        | 1.35                 | 2.6            |
| 0080002             | 0.14                          | 1                   | 100    | -       | blue         | 1.35                 | 2.6            |
| 0080005             | 0.14                          | 1                   | 100    | -       | yellow       | 1.35                 | 2.6            |
| 0080006             | 0.14                          | 1                   | 100    | -       | green        | 1.35                 | 2.6            |
| 0080010             | 0.14                          | 1                   | 100    | -       | transparent  | 1.35                 | 2.6            |
| 0080104             | 0.14                          | 1                   | 100    | -       | red          | 1.35                 | 2.6            |
| 0080105             | 0.14                          | 1                   | 100    | -       | white        | 1.35                 | 2.6            |
| 0081001             | 0.25                          | 1.2                 | 100    | -       | black        | 2.4                  | 4              |
| 0081002             | 0.25                          | 1.2                 | 100    | -       | blue         | 2.4                  | 4              |
| 0081003             | 0.25                          | 1.2                 | 100    | -       | brown        | 2.4                  | 4              |
| 0081005             | 0.25                          | 1.2                 | 100    | -       | yellow       | 2.4                  | 4              |
| 0081006             | 0.25                          | 1.2                 | 100    | -       | green        | 2.4                  | 4              |
| 0081009             | 0.25                          | 1.2                 | 100    | -       | orange       | 2.4                  | 4              |
| 0081010             | 0.25                          | 1.2                 | 100    | -       | transparent  | 2.4                  | 4              |
| 0081104             | 0.25                          | 1.2                 | 100    | -       | red          | 2.4                  | 4              |
| 0081105             | 0.25                          | 1.2                 | 100    | -       | white        | 2.4                  | 4              |
| 0081106             | 0.25                          | 1.2                 | 100    | -       | grey         | 2.4                  | 4              |
| 0081003S            | 0.25                          | 1.2                 | -      | 500     | brown        | 2.4                  | 4              |
| 0081001S            | 0.25                          | 1.2                 | -      | 500     | black        | 2.4                  | 4              |
| 0081002S            | 0.25                          | 1.2                 | -      | 500     | blue         | 2.4                  | 4              |
| 0081104S            | 0.25                          | 1.2                 | -      | 500     | red          | 2.4                  | 4              |
| 0082000             | 0.5                           | 1.45                | 100    | -       | green/yellow | 4.8                  | 6.8            |
| 0082001             | 0.5                           | 1.45                | 100    | -       | black        | 4.8                  | 6.8            |
| 0082002             | 0.5                           | 1.45                | 100    | -       | blue         | 4.8                  | 6.8            |
| 0082003             | 0.5                           | 1.45                | 100    | -       | brown        | 4.8                  | 6.8            |
| 0082005             | 0.5                           | 1.45                | 100    | -       | yellow       | 4.8                  | 6.8            |
| 0082006             | 0.5                           | 1.45                | 100    | -       | green        | 4.8                  | 6.8            |
| 0082007             | 0.5                           | 1.45                | 100    | -       | violet       | 4.8                  | 6.8            |
| 0082009             | 0.5                           | 1.45                | 100    | -       | orange       | 4.8                  | 6.8            |
| 0082010             | 0.5                           | 1.45                | 100    | -       | transparent  | 4.8                  | 6.8            |
| 0082104             | 0.5                           | 1.45                | 100    | -       | red          | 4.8                  | 6.8            |
| 0082105             | 0.5                           | 1.45                | 100    | -       | white        | 4.8                  | 6.8            |
| 0082106             | 0.5                           | 1.45                | 100    | -       | grey         | 4.8                  | 6.8            |
|                     |                               |                     |        |         |              |                      |                |

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| Article number | Conductor cross-section (mm²) | Outer diameter [mm] | m/ring | m/spool | Core colour  | Copper index (kg/km) | Weight (kg/km) |
|----------------|-------------------------------|---------------------|--------|---------|--------------|----------------------|----------------|
| 0082003S       | 0.5                           | 1.45                | -      | 500     | brown        | 4.8                  | 6.8            |
| 0082001S       | 0.5                           | 1.45                | -      | 500     | black        | 4.8                  | 6.8            |
| 0082002S       | 0.5                           | 1.45                | -      | 500     | blue         | 4.8                  | 6.8            |
| 0082104S       | 0.5                           | 1.45                | -      | 500     | red          | 4.8                  | 6.8            |
| 0083000        | 0.75                          | 1.8                 | 100    | -       | green/yellow | 7.2                  | 10.1           |
| 0083001        | 0.75                          | 1.8                 | 100    | -       | black        | 7.2                  | 10.1           |
| 0083002        | 0.75                          | 1.8                 | 100    | -       | blue         | 7.2                  | 10.1           |
| 0083003        | 0.75                          | 1.8                 | 100    | -       | brown        | 7.2                  | 10.1           |
| 0083005        | 0.75                          | 1.8                 | 100    | -       | yellow       | 7.2                  | 10.1           |
| 0083006        | 0.75                          | 1.8                 | 100    | -       | green        | 7.2                  | 10.1           |
| 0083010        | 0.75                          | 1.8                 | 100    | -       | transparent  | 7.2                  | 10.1           |
| 0083104        | 0.75                          | 1.8                 | 100    | -       | red          | 7.2                  | 10.1           |
| 0083105        | 0.75                          | 1.8                 | 100    | -       | white        | 7.2                  | 10.1           |
| 0083003S       | 0.75                          | 1.8                 | -      | 500     | brown        | 7.2                  | 10.1           |
| 0083001S       | 0.75                          | 1.8                 | -      | 500     | black        | 7.2                  | 10.1           |
| 0083002S       | 0.75                          | 1.8                 | -      | 500     | blue         | 7.2                  | 10.1           |
| 0083000S       | 0.75                          | 1.8                 | -      | 500     | green/yellow | 7.2                  | 10.1           |
| 0083104S       | 0.75                          | 1.8                 | -      | 500     | red          | 7.2                  | 10.1           |
| 0084000        | 1                             | 1.95                | 100    | -       | green/yellow | 9.6                  | 12.8           |
| 0084001        | 1                             | 1.95                | 100    | -       | black        | 9.6                  | 12.8           |
| 0084002        | 1                             | 1.95                | 100    | -       | blue         | 9.6                  | 12.8           |
| 0084003        | 1                             | 1.95                | 100    | -       | brown        | 9.6                  | 12.8           |
| 0084005        | 1                             | 1.95                | 100    | -       | yellow       | 9.6                  | 12.8           |
| 0084006        | 1                             | 1.95                | 100    | -       | green        | 9.6                  | 12.8           |
| 0084007        | 1                             | 1.95                | 100    | -       | violet       | 9.6                  | 12.8           |
| 0084010        | 1                             | 1.95                | 100    | -       | transparent  | 9.6                  | 12.8           |
| 0084104        | 1                             | 1.95                | 100    | -       | red          | 9.6                  | 12.8           |
| 0084105        | 1                             | 1.95                | 100    | -       | white        | 9.6                  | 12.8           |
| 0084106        | 1                             | 1.95                | 100    | -       | grey         | 9.6                  | 12.8           |
| 0084003S       | 1                             | 1.95                | -      | 500     | brown        | 9.6                  | 12.8           |
| 0084001S       | 1                             | 1.95                | -      | 500     | black        | 9.6                  | 12.8           |
| 0084002S       | 1                             | 1.95                | -      | 500     | blue         | 9.6                  | 12.8           |
| 0084000S       | 1                             | 1.95                | -      | 500     | green/yellow | 9.6                  | 12.8           |
| 0084104S       | 1                             | 1.95                | -      | 500     | red          | 9.6                  | 12.8           |
|                |                               |                     |        |         |              |                      |                |

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|----------------|-------------------------------|---------------------|--------|---------|--------------|----------------------|----------------|
| 0085000        | 1.5                           | 2.1                 | 100    | -       | green/yellow | 14.4                 | 18             |
| 0085001        | 1.5                           | 2.1                 | 100    | -       | black        | 14.4                 | 18             |
| 0085002        | 1.5                           | 2.1                 | 100    | -       | blue         | 14.4                 | 18             |
| 0085003        | 1.5                           | 2.1                 | 100    | -       | brown        | 14.4                 | 18             |
| 0085005        | 1.5                           | 2.1                 | 100    | -       | yellow       | 14.4                 | 18             |
| 0085010        | 1.5                           | 2.1                 | 100    | -       | transparent  | 14.4                 | 18             |
| 0085104        | 1.5                           | 2.1                 | 100    | -       | red          | 14.4                 | 18             |
| 0085105        | 1.5                           | 2.1                 | 100    | -       | white        | 14.4                 | 18             |
| 0085003S       | 1.5                           | 2.1                 | -      | 500     | brown        | 14.4                 | 18             |
| 0085001S       | 1.5                           | 2.1                 | -      | 500     | black        | 14.4                 | 18             |
| 0085002S       | 1.5                           | 2.1                 | -      | 500     | blue         | 14.4                 | 18             |
| 0085000S       | 1.5                           | 2.1                 | -      | 500     | green/yellow | 14.4                 | 18             |
| 0085104S       | 1.5                           | 2.1                 | -      | 500     | red          | 14.4                 | 18             |
| 0086000        | 2.5                           | 2.6                 | 100    | -       | green/yellow | 24                   | 29.5           |
| 0086001        | 2.5                           | 2.6                 | 100    | -       | black        | 24                   | 29.5           |
| 0086002        | 2.5                           | 2.6                 | 100    | -       | blue         | 24                   | 29.5           |
| 0086003        | 2.5                           | 2.6                 | 100    | -       | brown        | 24                   | 29.5           |
| 0086007        | 2.5                           | 2.6                 | 100    | -       | violet       | 24                   | 29.5           |
| 0086010        | 2.5                           | 2.6                 | 100    | -       | transparent  | 24                   | 29.5           |
| 0086104        | 2.5                           | 2.6                 | 100    | -       | red          | 24                   | 29.5           |
| 0086105        | 2.5                           | 2.6                 | 100    | -       | white        | 24                   | 29.5           |
| 0086106        | 2.5                           | 2.6                 | 100    | -       | grey         | 24                   | 29.5           |
| 0086003S       | 2.5                           | 2.6                 | -      | 500     | brown        | 24                   | 29.5           |
| 0086001S       | 2.5                           | 2.6                 | -      | 500     | black        | 24                   | 29.5           |
| 0086002S       | 2.5                           | 2.6                 | -      | 500     | blue         | 24                   | 29.5           |
| 0086000S       | 2.5                           | 2.6                 | -      | 500     | green/yellow | 24                   | 29.5           |
| 0086104S       | 2.5                           | 2.6                 | -      | 500     | red          | 24                   | 29.5           |
| 0087000        | 4                             | 3.1                 | 100    | -       | green/yellow | 38                   | 45             |
| 0087001        | 4                             | 3.1                 | 100    | -       | black        | 38                   | 45             |
| 0087002        | 4                             | 3.1                 | 100    | -       | blue         | 38                   | 45             |
| 0087003        | 4                             | 3.1                 | 100    | -       | brown        | 38                   | 45             |
| 0087005        | 4                             | 3.1                 | 100    | -       | yellow       | 38                   | 45             |
| 0087010        | 4                             | 3.1                 | 100    | -       | transparent  | 38                   | 45             |
| 0087104        | 4                             | 3.1                 | 100    | -       | red          | 38                   | 45             |
|                |                               |                     |        |         |              |                      |                |

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|----------------|-------------------------------|---------------------|--------|---------|--------------|----------------------|----------------|
| 0087105        | 4                             | 3.1                 | 100    | -       | white        | 38                   | 45             |
| 0088000        | 6                             | 3.8                 | -      | -       | green/yellow | 58                   | 68             |
| 0088001        | 6                             | 3.8                 | -      | -       | black        | 58                   | 68             |
| 0088002        | 6                             | 3.8                 | -      | -       | blue         | 58                   | 68             |
| 0088003        | 6                             | 3.8                 | -      | -       | brown        | 58                   | 68             |
| 0088010        | 6                             | 3.8                 | -      | -       | transparent  | 58                   | 68             |
| 0088104        | 6                             | 3.8                 | -      | -       | red          | 58                   | 68             |
| 0089000        | 10                            | 4.7                 | -      | -       | green/yellow | 96                   | 116            |
| 0089001        | 10                            | 4.7                 | -      | -       | black        | 96                   | 116            |
| 0089002        | 10                            | 4.7                 | -      | -       | blue         | 96                   | 116            |
| 0089003        | 10                            | 4.7                 | -      | -       | brown        | 96                   | 116            |
| 0089010        | 10                            | 4.7                 | -      | -       | transparent  | 96                   | 116            |
| 0089104        | 10                            | 4.7                 | -      | -       | red          | 96                   | 116            |
| 0089105        | 10                            | 4.7                 | -      | -       | white        | 96                   | 116            |
| 0089106        | 10                            | 4.7                 | -      | -       | grey         | 96                   | 116            |
| 0090000        | 16                            | 6.6                 | -      | -       | green/yellow | 154                  | 175            |
| 0090001        | 16                            | 6.6                 | -      | -       | black        | 154                  | 175            |
| 0090002        | 16                            | 6.6                 | -      | -       | blue         | 154                  | 175            |
| 0090104        | 16                            | 6.6                 | -      | -       | red          | 154                  | 175            |

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