# Designated according to The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022)

| UK Technical Assessment | UKTA-0836-25/7378 of 14/04/2025 |
|---|---|
| Technical Assessment Body issuing the UK Technical Assessment: | British Board of Agrément |
| Trade name of the construction product: | REDAELLI CABLE SYSTEM |
| Product family to which the construction product belongs: | Product Area Code 20 – Prefabricated steel and stainless-steel wire ropes with end connectors |
| Manufacturer: | Redaelli Tecna S.p.A.<br>Via Alessandro Volta, 16, Cologno Monzese, 20093 Milan,<br>Italy |
| Manufacturing plant(s): | Redaelli Tecna S.p.A<br>Via G. Matteotti, 323 25063 Gardone val Trompia (BS) Italy |
| This UK Technical Assessment contains: | 89 pages including 4 Annexes which form an integral part of this assessment |
| This UK Technical Assessment is issued in accordance with The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022) on the basis of: | EAD 200001-00-0602 - Prefabricated steel and stainless-steel wire ropes with end connectors |

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## 1. Technical description of the product

The REDAELLI Cable System is composed of prefabricated high-strength unalloyed galvanized and stainless steel wire ropes with end connectors (sockets).

The prefabricated high-strength wire ropes made of unalloyed galvanized steel consist of full locked coil ropes or spiral strand ropes as well as the sockets. The unalloyed galvanized wire ropes correspond to EN 10264-2 : 2012, EN 10264-3 : 2012 as well as to the EN 12385(1) series of standards.

The prefabricated high-strength wire ropes made of stainless steel consist of full locked coil ropes or spiral strand ropes as well as the sockets. Wire ropes made of stainless steel correspond to EN 10264-4 : 2012 and EN 10088-3 : 2014 as well as to the EN 12385(1) series of standards.

In addition to the above-mentioned standards, the unalloyed galvanized and stainless steel wire ropes comply with the specifications in Annexes B1 and B2.

Types of sockets are listed in Annex D1 and are selected according to the application. For the product properties of the components of the sockets, the information in Annexes B1 and B2 applies.

Drawings of the sockets with its components with the essential dimensions are given in Annexes D2 to D72.

Dimensions and tolerances not indicated in the Annexes shall correspond to the indications laid down in the technical documentation to this UK Technical Assessment.

## 2. Specification of the intended use(s) in accordance with the applicable UK Assessment Document (hereinafter UKAD)

The intended use comprises all typical structural applications of high-strength wire ropes made of unalloyed galvanized respectively stainless steel taking into account the national provisions of the Member State applicable for the location where the product is incorporated in the works.

The wire ropes with the sockets are intended for the use in structures with static or quasi-static loads according to EN 1990 : 2002, where no verification of fatigue relating to EN 1993-1-9 : 2005 is necessary.

The performances given in Section 3 are only valid if the prefabricated high-strength unalloyed galvanized and stainless steel wire ropes with sockets are used in compliance with the specifications and conditions given in the Annexes.

The verifications and assessment methods on which this UK Technical Assessment is based lead to the assumption of a working life of the prefabricated high-strength unalloyed galvanized and stainless steel wire ropes with sockets of at least 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

With regard to durability the regulations given in EN 1993-1-11 : 2006, section 4 and EN 1090-2 : 2018 shall be observed.

For socketing EN 13411-4 : 2011 applies.

(1) EN 12385-1 : 2002 + A1 : 2008, EN 12385-2 : 2002 + A1 : 2008, EN 12385-3 : 2004 + A1 : 2008 and EN 12385-10 : 2003 + A1 : 2008

## 3. Performance of the product and references to the methods used for its assessment

### 3.1. Mechanical resistance and stability (BWR 1)

| Essential characteristic | Performance |
|---|---|
| Breaking strength | $F_{uk}$ see Annexes A, C1 to C6 and D2 to D72 |
| Modulus of deformation / elasticity | $E_Q$ see Annex B1 |

### 3.2. Safety in case of fire (BWR 2)

Not relevant.

### 3.3. Health, hygiene and the environment (BWR 3)

Not relevant.

### 3.4. Safety and accessibility in use (BWR 4)

Not relevant.

### 3.5. Protection against noise (BWR 5)

Not relevant.

### 3.6. Energy economy and heat retention (BWR 6)

Not relevant.

### 3.7. Sustainable use of natural resources (BWR 7)

No performance assessed.

## 4. Assessment and verification of constancy of performance (hereinafter AVCP) system applied

### 4.1. System of assessment and verification of constancy of performance

According to UKAD No. 200001-00-0602 and Annex V of the Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022) 305/2011 as brought into UK law and amended, the system of assessment and verification of constancy of performance (AVCP) 2+ applies.

## 5. Technical details necessary for the implementation of the AVCP system, as provided for in the applicable UKAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with the British Board of Agrément and made available to the UK Approved Bodies involved in the conformity attestation process.

### 5.1. UKCA marking for the product/ system must contain the following information:

- Identification number of the Approved Body
- Name/ registered address of the manufacturer of the product/ system
- Marking including date of Marking and the intended use as stated in the Designated technical specification
- Unique identification code of the product type
- The reference number of the Declaration of Performance
- The level or class of the performance declared
- The reference to the Designated technical specification applied
- UKTA number.

| | |
|---|---|
| On behalf of the British Board of Agrément | |
| Date of Issue: 14 April 2025 | **Hardy Giesler**<br>Chief Executive Officer |

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1st Floor Building 3,
Hatters Lane,
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## ANNEX A

### A.1 Assumptions concerning design

The design is carried out according to EN 1993-1-11 : 2006 + AC : 2009.

The design values of resistance given below are used for design.

The loading is static or quasi-static according to EN 1990 : 2002 without need of verification of fatigue relating to EN 1993-1-9 : 2005 + AC : 2009.

The dimensions, tolerances, material properties and minimum screw-in length stated in this UK Technical Assessment are observed.

The wire ropes with sockets are to be used that no systematic bending occurs in the connecting parts.

The design is carried out by a designer of the structure experienced in the field of steel structures.

The characteristic breaking strength $F_{uk}$ given in Annexes A and C1 to C6 for REDAELLI Wire Ropes (REDAELLI Cable System) applies to the ropes with end connectors. The design tension resistance $F_{Rd}$ is calculated with the respective nationally applicable partial safety factors as follows.

**<u>Design tension resistance of the wire ropes with end connectors</u>**

The design value of the tension resistance $F_{Rd}$ of the wire ropes including the end connectors is determined as follows:

$F_{Rd} = F_{uk}/(1{,}5 \cdot \gamma_R)$

Where:

$F_{uk} = \min\{ F_{1,u,k} ; N_{u,k} \}$ with: $F_{1,u,k} = F_{min} \cdot k_e$ with $F_{min}$ see Annexes C1 to C6
$k_e$ = 1,0 for metal or resin filled sockets
$k_e$ = 0,9 for swaged sockets
and: $N_{u,k}$ see Annexes D2 to D72

$\gamma_R$ = 1.0

The value given for the partial safety factor $\gamma_R$ is a minimum value, that means values $\gamma_R < 1{,}0$ are not allowed. It must be used in cases where no values or no unfavourable values are given in national regulations where the wire ropes with sockets are used or in the National Annex to Eurocode 3.

The connection components of the supporting structure are not part of the product (UKTA) and are carried out by the designer of the structure. Gusset plates have a sufficient thickness so that the load bearing capacity of the wire ropes with sockets (in particular the pins) are not impaired.

## A.2 Assumptions concerning installation

The installation is carried out such that the wire ropes with sockets are accessible for repair or maintenance at any time.

The installation is carried out according to the manufacturer's instructions. The manufacturer hands over the assembly instructions to the assembler. From the assembly instructions it is followed that, prior to installation, all components of the wire ropes with end connectors shall be checked for their perfect condition and damaged components shall not be used.

The responsible assembler attests by notation that all connections with threads were checked concerning the keeping of the minimum screw-in length given in the Annexes.

By installing the end connector "Bridge socket BRC" (see Annexes D28 and D29) and “Bridge socket BRCH” (see Annexes D71 and D72) attention is paid on accurate symmetric arrangement of thread bar to avoid eccentric loading of the sleeve.

An uneven distribution of the wire rope force and unfavourable compulsion on the "Bridge sockets BRC and BRCH" are excluded. When installing the adjustable "Bridge socket BRC or BRCH" the two threaded rods are tightened evenly. The difference between the free lengths of the threaded rods in the final state is a maximum of 2 mm.

The conformity of the installed wire ropes with sockets with the provisions of the UK Technical Assessment is attested by the executing assembler.

## A.3 Indications to the manufacturer

The manufacturer ensures that the information on the specific conditions is given to those who are concerned. This information may be given by reproduction of the UK Technical Assessment.

In addition, all essential installation data shall be shown clearly on the package or on an enclosed instruction sheet, preferably using illustration(s).

To prevent confusion the wire ropes with sockets should be packaged and delivered as a complete unit.

## ANNEX B1

**Table 1: Minimum mechanical characteristics of steel wires**

| Properties | High strength steel wires | High strength stainless steel wires |
|---|---|---|
| Nominal Tensile Strength | 1570 MPa<br>(after hot-dip galvanizing) | 1450 MPa |
| Proof stress Rp 0,2: | 1180 MPa | 1080 MPa |
| Elongation at break: | 4% min on 250 mm<br>(EN 12385-10) | - |

**Table 2: Materials of sockets and ancillaries (materials partially with special requirements as per documentation deposited at DIBt)**

| Galvanized Steel | | Stainless Steel | |
|---|---|---|---|
| **Name** | **Standard** | **Name** | **Standard** |
| BT1 | BS3100: 1991 | X2CrNiMoN22-5-3 (1.4462) | EN 10088-3: 2014-12 |
| G18NiMoCr3-6 | EN 10340: 2008-01 | X4CrNiMo16-5-1 (1.4418) | EN 10088-3: 2014-12 |
| G24Mn6 | EN 10340: 2008-01 | | |
| 34CrNiMo6 | EN ISO 683-2: 2018-09 | | |
| 39NiCrMo3 | EN 10083-3: 2006 | | |
| 42CrMo4 | EN ISO 683-2: 2018-09 | | |
| B7 | ASTM A193 / A193M - 20 | | |
| 2H | ASTM A194 / A194M - 20a | | |
| S355J2 | EN 10025-2: 2005-04 | | |

**Table 3: Modulus of Elasticity $E_Q$**

| | Galvanised Steel | Stainless Steel |
|---|---|---|
| Open Spiral Strand Cable (OSS) | 160 ± 10 kN/mm² | 130 ± 10 kN/mm² |
| Full Locked Coil Cable (FLC) | 160 ± 10 kN/mm² | 130 ± 10 kN/mm² |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex B1** |
| **Table 1: Minimum mechanical characteristics of steel wires** | |

## ANNEX B2

**Table 4: Minimum mechanical characteristics of sockets and ancillaries**

| | $R_{eH}$ [MPa] | | | | | | | | | | $R_m$ [MPa] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| th min (>) [mm] | 0 | 16 | 40 | 63 | 80 | 100 | 150 | 200 | 250 | >400 | 0 | 3 | 100 | 150 | 250 | >400 |
| th max (≤) [mm] | 16 | 40 | 63 | 80 | 100 | 150 | 200 | 250 | 400 | | 3 | 100 | 150 | 250 | 400 | |
| S355J2 | 355 | 345 | 335 | 325 | 315 | 295 | 285 | 275 | 265 | 265 | 510 | 470 | 450 | 450 | 450 | 450 |

| | $A_{min}$ [%] | | | | | | | | | | | | $K_{v\,min}$ [J] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| th min (>) [mm] | 0 | 1 | 1,5 | 2 | 2,5 | 3 | 40 | 63 | 100 | 150 | 250 | >400 | at -20°C |
| th max (≤) [mm] | 1 | 1,5 | 2 | 2,5 | 3 | 40 | 63 | 100 | 150 | 250 | 400 | | |
| S355J2 | 14 | 15 | 16 | 17 | 18 | 22 | 21 | 20 | 18 | 17 | 17 | 17 | 27 |

| | $R_{p0,2}$ [MPa] | | | | | | | | $R_m$ [MPa] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ø min (>) [mm] | 0 | 16 | 40 | 64 | 100 | 160 | 180 | >250 | 0 | 16 | 40 | 100 | 160 | >250 |
| Ø max (≤) [mm] | 16 | 40 | 64 | 100 | 160 | 180 | 250 | | 16 | 40 | 100 | 160 | 250 | |
| 42CrMo4 | 900 | 750 | 650 | 650 | 550 | 500 | 500 | 500 | 1100 | 1000 | 900 | 800 | 750 | 750 |
| 34CrNiMo6 | 1000 | 900 | 800 | 800 | 700 | 600 | 600 | 600 | 1200 | 1100 | 1000 | 900 | 800 | 800 |
| 39NiCrMo3 - Re | 785 | 735 | 685 | 685 | 685 | 685 | 685 | 685 | 980 | 930 | 880 | 880 | 880 | 880 |
| B7 | 900 | 750 | 720 | 655 | 550 | 515 | 500 | 500 | 1100 | 1000 | 900 | 800 | 750 | 750 |
| 2H | 900 | 750 | 650 | 650 | 550 | 500 | 500 | 500 | 1100 | 1000 | 900 | 800 | 750 | 750 |
| | Hardness: Ø ≤ M36: 248 to 327 HB; Ø > M36: 212 to 327 HB | | | | | | | | | | | | | |

| | $A_{min}$ [%] | | | | | | $K_{v\,min}$ [J](1) |
|---|---|---|---|---|---|---|---|
| Ø min (>) [mm] | 0 | 16 | 40 | 100 | 160 | >250 | at -20°C or -40°C |
| Ø max (≤) [mm] | 16 | 40 | 100 | 160 | 250 | | |
| 42CrMo4 | 10 | 11 | 12 | 13 | 14 | 14 | 27 |
| 34CrNiMo6 | 9 | 10 | 11 | 12 | 13 | 13 | 27 |
| 39NiCrMo3 - Re | 11 | 11 | 12 | 12 | 13 | 13 | 27 |
| B7 | 16 | 16 | 16 | 18 | 18 | 18 | 27 |
| 2H | 10 | 11 | 12 | 13 | 14 | 14 | 27 |

| | $R_{p0,2}$ [MPa] | | | | $R_m$ [MPa] | | | | $A_{min}$ [%] | $K_{v\,min}$ [J](1) | Hardness [HB] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| th min (>) [mm] | 0 | 40 | 80 | >250 | 0 | 40 | 80 | >250 | | at -20°C or -40°C | 0 | >80 |
| th max (≤) [mm] | 40 | 80 | 250 | | 40 | 80 | 250 | | | | 80 | |
| BT1 - Re | 550 | 500 | 500 | 500 | 700 | 690 | 690 | 690 | 15 | 27 | 201-279 | 201-279 |
| G24Mn6 - Re | 550 | 500 | 500 | 500 | 700 | 690 | 690 | 690 | 15 | 27 | 201-279 | 201-279 |
| G18NiMoCr3-6 - Re | 700 | 700 | 630 | 630 | 830 | 830 | 780 | 780 | 12 | 27 | 249-296 | 234-279 |

Characteristics not specified in table 4 are according to standard in table 2 (Annex B1).

(1) Reference temperature for $K_{v\,min}$: -20°C or -40°C according to Redaelli standard and project specification

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| **REDAELLI Cable System** | **Annex B2** |
| **Table 4: Minimum mechanical characteristics of sockets and ancillaries** | |

## ANNEX B3

**Corrosion Protection**

Redaelli steel cables have a multiple stage corrosion protection system.

- Locking of the cable's external surface due to closed configuration of 'Z'-shaped wires (for FLC and FLX cables)
- Zinc (Zn) and Zinc Aluminium (95% Zn / 5% Al) hot dipped coating of individual wires
  EN 10264-2: 2012-03 Class A for round wires
  300g/m$^2$ for shaped wires
- Internal zinc rich corrosion inhibitor compound (Tensofill) applied during the cable stranding process

To increase durability of cables, additional systems can be applied:

- Additional site applied surface corrosion protection system using Tensocoat
- Vacuum extruded or co-extruded High Density Polyethylene (HDPE) sheathing

Sockets corrosion protection is given by hot dip galvanizing (according to EN ISO 1461:2009) if specific painting system is not required by project's specifications. Threads are protected by electrolytic galvanizing (Fe/Zn 12 ASTM F1941) or by a non-electrolytically applied zinc-aluminium dry-film or they are left bright.

**Tensofill characteristics**

| | |
|---|---|
| Specific weight | 1,27 kg/dm$^3$ |
| Dry mass | 75% |
| Resin (on dry mass) | 13% |
| Zinc (on dry mass) | 40% |
| SACI 500 (on dry mass) | 47% |
| Resistance on sat fog (ASTM B117) | 500 h |
| Resistance to humid state (ASTM D2247) | 500 h |

**Tensocoat characteristics**

| | |
|---|---|
| Specific weight | 1,0 kg/dm$^3$ |
| Dry mass | 56% |
| Resin (on dry mass) | 25% |
| Aluminium micro-flakes (on dry mass) | 11% |
| SACI 500 (on dry mass) | 64% |
| Resistance on sat fog (ASTM B117) | 1000 h |
| Resistance to humid state (ASTM D2247) | 1000 h |

**Non-electrolytically applied zinc-aluminium dry-film characteristics**

Applied thickness according to project specification

| Coating weight | Salt spay test (ISO 9227 / ASTM B117) | Cyclic test |
|---|---|---|
| > 24 g/m$^2$ | > 240 h without white rust<br>> 720 h without red rust | 25 cycles APGE |
| > 36 g/m$^2$ | > 240 h without white rust<br>> 1000 h without red rust | 6 cycles ACT<br>50 cycles APGE |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex B3**<br>**Anhang B3** |
| **Description of surface treatments** | |

## ANNEX B4

### HDPE sheathing

For increased long term durability OSS and FLC cables can be additionally protected with an extruded HDPE covering. This is applied by a continuous extrusion process and is closely monitored under factory controlled conditions. This external plastic coating provides an additional corrosion protection stage on outer surface of the cables.

HDPE thickness is based on nominal diameter of OSS or FLC cable as detailed in below table. Cable's characteristics are those reported in Annex C1, C3 and C4. for the same cable type and nominal diameter.

*Open spiral strand with HDPE OSSH*

| Range of cable diameter | Indicative HDPE thickness [mm] |
|---|---|
| OSSH8-OSSH28 | 3,5 |
| OSSH32-OSSH56 | 4 |
| OSSH60-OSSH88 | 5 |
| OSSH92-OSSH120 | 6 |

*Full locked coil cables with HDPE FLCH*

| Range of cable diameter | Indicative HDPE thickness [mm] |
|---|---|
| FLCH16-FLCH28 | 3,5 |
| FLCH32-FLCH56 | 4 |
| FLCH60-FLCH88 | 5 |
| FLCH92-FLCH128 | 6 |
| FLCH132-FLCH156 | 7 |

### HDPE characteristics

| | |
|---|---|
| Density (ISO 1183) | 0,94÷0,96 g/cm$^3$ |
| Elongation at break (ISO 527) | 400% |
| Tensile strength | 19 MPa |

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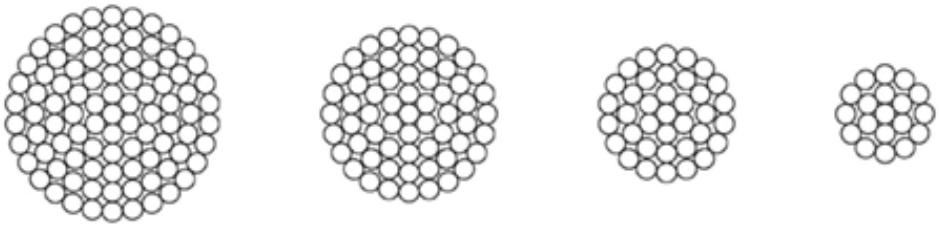
| **REDAELLI Cable System** | **Annex B4** |
| **HDPE System description** | |

## ANNEX C1

OSS cable



| Product code | Nominal diameter (mm) | $F_{min}$ [1] (kN) | $F_{R,d,Rope}$ [2] (kN) | Metallic cross section A ($mm^2$) | EA (MN) | Mass (kg/m) |
|---|---|---|---|---|---|---|
| OSS 8 | 8 | 60 | 40 | 39 | 6,5 | 0,3 |
| OSS 12 | 12 | 135 | 90 | 88 | 14,6 | 0,7 |
| OSS 16 | 16 | 240 | 160 | 157 | 25,9 | 1,3 |
| OSS 20 | 20 | 380 | 253 | 245 | 40,4 | 2,0 |
| OSS 24 | 24 | 545 | 363 | 353 | 58,2 | 2,9 |
| OSS 28 | 28 | 745 | 497 | 480 | 79,3 | 4,0 |
| OSS 32 | 32 | 970 | 647 | 628 | 104 | 5,2 |
| OSS 36 | 36 | 1230 | 820 | 794 | 131 | 6,5 |
| OSS 40 | 40 | 1520 | 1013 | 981 | 162 | 8,1 |
| OSS 44 | 44 | 1840 | 1227 | 1186 | 196 | 9,8 |
| OSS 48 | 48 | 2190 | 1460 | 1412 | 233 | 11,6 |
| OSS 52 | 52 | 2570 | 1713 | 1657 | 273 | 13,7 |
| OSS 56 | 56 | 2980 | 1987 | 1922 | 317 | 15,8 |
| OSS 60 | 60 | 3425 | 2283 | 2206 | 364 | 18,2 |
| OSS 64 | 64 | 3870 | 2580 | 2510 | 409 | 20,7 |
| OSS 68 | 68 | 4355 | 2903 | 2834 | 462 | 23,4 |
| OSS 72 | 72 | 4870 | 3247 | 3177 | 518 | 26,2 |
| OSS 76 | 76 | 5410 | 3607 | 3540 | 577 | 29,2 |
| OSS 80 | 80 | 5980 | 3987 | 3922 | 639 | 32,3 |
| OSS 84 | 84 | 6580 | 4387 | 4324 | 705 | 35,6 |
| OSS 88 | 88 | 7210 | 4807 | 4746 | 774 | 39,1 |
| OSS 92 | 92 | 7870 | 5247 | 5187 | 846 | 42,8 |
| OSS 96 | 96 | 8560 | 5707 | 5648 | 921 | 46,6 |
| OSS 100 | 100 | 9275 | 6183 | 6128 | 999 | 50,5 |
| OSS 104 | 104 | 10025 | 6683 | 6629 | 1080 | 54,6 |
| OSS 108 | 108 | 10800 | 7200 | 7148 | 1165 | 58,9 |
| OSS 112 | 112 | 11605 | 7737 | 7688 | 1253 | 63,4 |
| OSS 116 | 116 | 12440 | 8293 | 8246 | 1344 | 68,0 |
| OSS 120 | 120 | 13305 | 8870 | 8825 | 1438 | 72,7 |

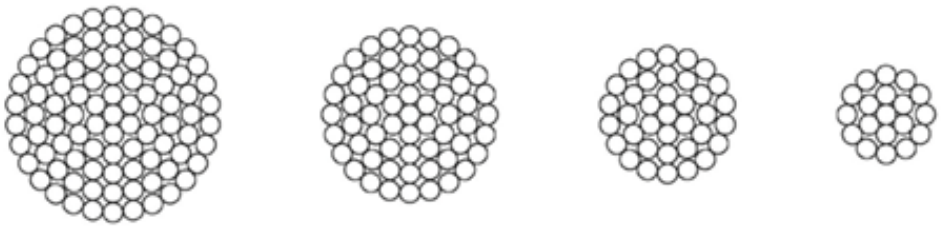
[1] Please refer to [1] in Annex C6

[2] Please refer to [2] in Annex C6

| | |
|---|---|
| **REDAELLI Cable System** | **Annex C1** |
| **Redaelli Open Spiral Strand (OSS) cable – Ø 8 to 120 mm** | |

## ANNEX C2

OSX



| Product code | Nominal diameter (mm) | $F_{min}$ [1] (kN) | $F_{R,d,Rope}$ [2] (kN) | Metallic cross section A ($mm^2$) | EA (MN) | Mass (kg/m) |
|---|---|---|---|---|---|---|
| OSX 8 | 8 | 55 | 37 | 39 | 5,1 | 0,3 |
| OSX 10 | 10 | 85 | 57 | 61 | 8,0 | 0,5 |
| OSX 12 | 12 | 120 | 80 | 88 | 11,5 | 0,7 |
| OSX 14 | 14 | 165 | 110 | 120 | 16 | 1,0 |
| OSX 16 | 16 | 220 | 147 | 157 | 20 | 1,3 |
| OSX 18 | 18 | 280 | 187 | 199 | 26 | 1,7 |
| OSX 20 | 20 | 345 | 230 | 245 | 32 | 2,1 |
| OSX 22 | 22 | 415 | 277 | 297 | 39 | 2,5 |
| OSX 24 | 24 | 495 | 330 | 353 | 46 | 3,0 |
| OSX 26 | 26 | 585 | 390 | 418 | 54 | 3,5 |
| OSX 28 | 28 | 675 | 450 | 480 | 62 | 4,0 |
| OSX 30 | 30 | 775 | 517 | 552 | 72 | 4,6 |
| OSX 32 | 32 | 885 | 590 | 628 | 82 | 5,3 |
| OSX 34 | 34 | 1000 | 667 | 708 | 92 | 5,9 |
| OSX 36 | 36 | 1120 | 747 | 794 | 103 | 6,7 |
| OSX 38 | 38 | 1250 | 833 | 885 | 115 | 7,4 |
| OSX 40 | 40 | 1385 | 923 | 981 | 127 | 8,2 |
| OSX 44 | 44 | 1675 | 1117 | 1186 | 154 | 9,9 |
| OSX 48 | 48 | 1930 | 1287 | 1412 | 184 | 11,8 |
| OSX 52 | 52 | 2255 | 1503 | 1657 | 215 | 13,9 |
| OSX 56 | 56 | 2605 | 1737 | 1922 | 250 | 16,1 |
| OSX 60 | 60 | 2980 | 1987 | 2206 | 287 | 18,5 |
| OSX 64 | 64 | 3385 | 2257 | 2510 | 326 | 21,0 |
| OSX 68 | 68 | 3810 | 2540 | 2834 | 368 | 23,7 |
| OSX 72 | 72 | 4265 | 2843 | 3177 | 413 | 26,6 |
| OSX 76 | 76 | 4745 | 3163 | 3540 | 460 | 29,7 |
| OSX 80 | 80 | 5250 | 3500 | 3922 | 510 | 32,9 |

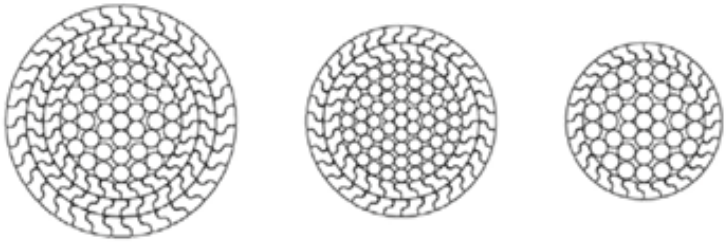
[1] Please refer to [1] in Annex C6

[2] Please refer to [2] in Annex C6

| | |
|---|---|
| **REDAELLI Cable System** | **Annex C2** |
| **Redaelli Stainless Steel Open Spiral Strand (OSX) cable – Ø 8 to 80 mm** | |

## ANNEX C3

FLC



| Product code | Nominal diameter (mm) | $F_{min}$ (1) (kN) | $F_{R,d,Rope}$ (2) (kN) | Metallic cross section A ($mm^2$) | EA (MN) | Mass (kg/m) |
|---|---|---|---|---|---|---|
| FLC 16 | 16 | 255 | 170 | 170 | 28 | 1,4 |
| FLC 20 | 20 | 395 | 263 | 266 | 44 | 2,2 |
| FLC 24 | 24 | 575 | 383 | 383 | 63 | 3,2 |
| FLC 28 | 28 | 780 | 520 | 521 | 86 | 4,3 |
| FLC 32 | 32 | 1020 | 680 | 681 | 112 | 5,7 |
| FLC 36 | 36 | 1295 | 863 | 862 | 142 | 7,2 |
| FLC 40 | 40 | 1615 | 1077 | 1077 | 178 | 9,0 |
| FLC 44 | 44 | 1955 | 1303 | 1303 | 215 | 10,8 |
| FLC 48 | 48 | 2330 | 1553 | 1551 | 256 | 12,9 |
| FLC 52 | 52 | 2765 | 1843 | 1841 | 304 | 15,3 |
| FLC 56 | 56 | 3205 | 2137 | 2136 | 352 | 17,8 |
| FLC 60 | 60 | 3680 | 2453 | 2452 | 405 | 20,4 |
| FLC 64 | 64 | 4190 | 2793 | 2789 | 460 | 23,2 |
| FLC 68 | 68 | 4730 | 3153 | 3149 | 513 | 26,2 |
| FLC 72 | 72 | 5235 | 3490 | 3530 | 575 | 29,4 |
| FLC 76 | 76 | 5815 | 3877 | 3933 | 641 | 32,7 |
| FLC 80 | 80 | 6425 | 4283 | 4358 | 710 | 36,3 |
| FLC 84 | 84 | 7070 | 4713 | 4805 | 783 | 40,0 |
| FLC 88 | 88 | 7745 | 5163 | 5274 | 860 | 43,9 |
| FLC 92 | 92 | 8450 | 5633 | 5764 | 940 | 48,0 |
| FLC 96 | 96 | 9185 | 6123 | 6276 | 1023 | 52,2 |
| FLC 100 | 100 | 10075 | 6717 | 6890 | 1123 | 57,3 |
| FLC 104 | 104 | 10880 | 7253 | 7452 | 1215 | 62,0 |
| FLC 108 | 108 | 11725 | 7817 | 8037 | 1310 | 66,9 |
| FLC 112 | 112 | 12745 | 8497 | 8744 | 1425 | 72,8 |
| FLC 116 | 116 | 13660 | 9107 | 9379 | 1529 | 78,0 |
| FLC 120 | 120 | 14605 | 9737 | 10037 | 1636 | 83,5 |
| FLC 124 | 124 | 15585 | 10390 | 10718 | 1747 | 89,2 |
| FLC 128 | 128 | 16790 | 11193 | 11551 | 1883 | 96,1 |
| FLC 132 | 132 | 17845 | 11897 | 12285 | 1966 | 102,2 |
| FLC 136 | 136 | 18935 | 12623 | 13040 | 2086 | 108,5 |
| FLC 140 | 140 | 20055 | 13370 | 13819 | 2211 | 115,0 |
| FLC 144 | 144 | 21205 | 14137 | 14620 | 2339 | 121,7 |
| FLC 148 | 148 | 22395 | 14930 | 15443 | 2471 | 128,5 |

**REDAELLI Cable System**

**Redaelli Full Locked Coil (FLC) cable – Ø 16 to 148 mm**

**Annex C3**

## ANNEX C4

| Product code | Nominal diameter (mm) | $F_{min}$ [1] (kN) | $F_{R,d,Rope}$ [2] (kN) | Metallic cross section A ($mm^2$) | EA (MN) | Mass (kg/m) |
|---|---|---|---|---|---|---|
| FLC 152 | 152 | 23610 | 15740 | 16289 | 2606 | 135,5 |
| FLC 156 | 156 | 24860 | 16573 | 17158 | 2745 | 142,8 |

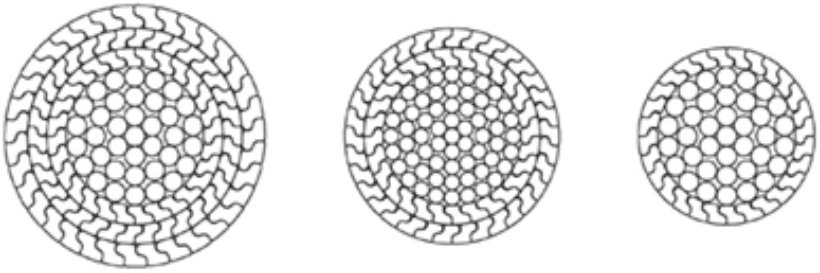
[1] Please refer to [1] in Annex C6

[2] Please refer to [2] in Annex C6

| | |
|---|---|
| **REDAELLI Cable System** | **Annex C4** |
| **Redaelli Full Locked Coil (FLC) cable – Ø 152 to 156 mm** | |

## ANNEX C5

FLX



| Product code | Nominal diameter (mm) | $F_{min}$ [1] (kN) | $F_{R,d,Rope}$ [2] (kN) | Metallic cross section A ($mm^2$) | EA (MN) | Mass (kg/m) |
|---|---|---|---|---|---|---|
| FLX 14 | 14 | 180 | 120 | 130 | 17 | 1,1 |
| FLX 16 | 16 | 235 | 157 | 170 | 22 | 1,4 |
| FLX 18 | 18 | 295 | 197 | 215 | 28 | 1,8 |
| FLX 20 | 20 | 365 | 243 | 266 | 35 | 2,2 |
| FLX 22 | 22 | 445 | 297 | 322 | 42 | 2,7 |
| FLX 24 | 24 | 530 | 353 | 383 | 50 | 3,2 |
| FLX 26 | 26 | 620 | 413 | 450 | 58 | 3,8 |
| FLX 28 | 28 | 720 | 480 | 521 | 68 | 4,4 |
| FLX 30 | 30 | 825 | 550 | 598 | 78 | 5,1 |
| FLX 32 | 32 | 940 | 627 | 681 | 89 | 5,8 |
| FLX 34 | 34 | 1065 | 710 | 769 | 100 | 6,5 |
| FLX 36 | 36 | 1190 | 793 | 862 | 112 | 7,2 |
| FLX 38 | 38 | 1330 | 887 | 960 | 125 | 8,1 |
| FLX 40 | 40 | 1450 | 967 | 1077 | 140 | 9,1 |
| FLX 44 | 44 | 1745 | 1163 | 1303 | 169 | 11,0 |
| FLX 48 | 48 | 2065 | 1377 | 1551 | 202 | 13,1 |
| FLX 52 | 52 | 2400 | 1600 | 1841 | 239 | 15,6 |
| FLX 56 | 56 | 2765 | 1843 | 2136 | 278 | 18,1 |
| FLX 60 | 60 | 3155 | 2103 | 2452 | 319 | 20,7 |
| FLX 64 | 64 | 3570 | 2380 | 2789 | 363 | 23,2 |
| FLX 68 | 68 | 4015 | 2677 | 3149 | 409 | 26,6 |
| FLX 72 | 72 | 4485 | 2990 | 3530 | 459 | 29,9 |
| FLX 76 | 76 | 4980 | 3320 | 3933 | 511 | 33,3 |
| FLX 80 | 80 | 5505 | 3670 | 4358 | 567 | 36,9 |

[1] Please refer to [1] in Annex C6
[2] Please refer to [2] in Annex C6

| | |
|---|---|
| **REDAELLI Cable System** | **Annex C5** |
| **Redaelli Stainless Steel Full Locked Coil (FLX) cable – Ø 14 to 80 mm** | |

## ANNEX C6

(1) Minimum breaking force of the rope according to EN 1993-1-11:2006+AC:2009, clause 1.3.9.

(2) $F_{R,d,Rope}$ applies to the rope without considering the end connector and is determined according to EN 1993-1-11:2006+AC:2009 (6.2) ($F_{R,d,Rope} = (F_{min} / 1,5) / \gamma_R$) with a partial factor $\gamma_R$=1,0

**$F_{uk}$ = min{ $F_{1,u,k}$ ; $N_{u,k}$ }** with: $F_{1,u,k} = F_{min} \times k_e$ with $F_{min}$ see Annex C1 to C5

$k_e$ = 1,0 for metal or resin filled sockets

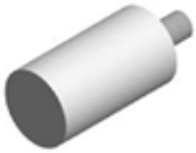
$k_e$ = 0,9 for swaged sockets

and: $N_{u,k}$ see Annex D2 to D72

**$E_Q$ = EA / A**

| | |
|---|---|
| **REDAELLI Cable System** | **Annex C6** |
| | |

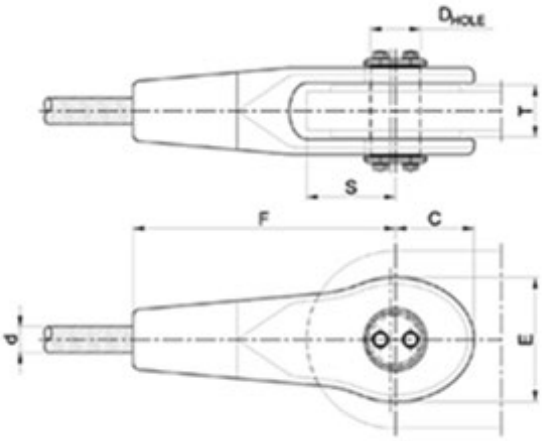
## ANNEX D1

| | FIX SOCKETS | ADJUSTABLE SOCKETS | | |
|---|---|---|---|---|
| Cast Sockets | TTF | TBF | BRC | |
| Machined sockets |  CYF | CYT | CYN | CYW |
| | CYS | CYB | CYR | |
| | | CYM | CYV | |
| Cylindrical sockets with coupler | CYC | CYA | | |
| Swaged Sockets | MAC | FLT | TBC | MAC-R |
| | MCC | | | |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D1** |
| **REDAELLI 3D sockets overview** | |

## ANNEX D2

Fixed fork sockets TTF




| Product Code | Cable diameter d max | $N_{u,k}$ (1) | $N_{R,d}$ (2) | C | $D_{HOLE}$ | E | F | S max | T min | T max | Mass |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (mm) | (kN) | (kN) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (kg) |
| TTF 12 | 15 | 190 | 127 | 38 | 25,5 | 60 | 123 | 50 | 16 | 22 | 1,2 |
| TTF 16 | 19 | 320 | 213 | 48 | 32 | 78 | 159 | 60 | 24 | 30 | 2,5 |
| TTF 20 | 24 | 490 | 327 | 60 | 39 | 94 | 195 | 75 | 30 | 37 | 4,4 |
| TTF 24 | 28 | 700 | 467 | 72 | 46 | 112 | 231 | 85 | 38 | 45 | 7,1 |
| TTF 28 | 32 | 970 | 647 | 84 | 54 | 132 | 267 | 100 | 50 | 56 | 11 |
| TTF 32 | 36 | 1285 | 857 | 95 | 61 | 150 | 303 | 110 | 55 | 60 | 17 |
| TTF 36 | 40 | 1615 | 1077 | 104 | 67 | 164 | 334 | 120 | 65 | 70 | 23 |
| TTF 40 | 44 | 1955 | 1303 | 120 | 76 | 188 | 375 | 135 | 70 | 75 | 33 |
| TTF 44 | 48 | 2350 | 1567 | 130 | 83 | 205 | 406 | 145 | 80 | 85 | 44 |
| TTF 48 | 52 | 2765 | 1843 | 140 | 90 | 220 | 442 | 155 | 90 | 95 | 57 |
| TTF 52 | 56 | 3300 | 2200 | 154 | 98 | 242 | 478 | 170 | 95 | 105 | 71 |
| TTF 56 | 60 | 3900 | 2600 | 172 | 109 | 270 | 519 | 185 | 105 | 110 | 89 |
| TTF 60 | 64 | 4400 | 2933 | 182 | 116 | 286 | 560 | 205 | 115 | 120 | 107 |
| TTF 64 | 68 | 5000 | 3333 | 196 | 124 | 308 | 596 | 215 | 125 | 130 | 130 |
| TTF 68 | 72 | 5550 | 3700 | 208 | 131 | 325 | 637 | 230 | 130 | 135 | 153 |
| TTF 72 | 76 | 6250 | 4167 | 218 | 138 | 345 | 673 | 240 | 140 | 145 | 181 |
| TTF 76 | 80 | 7000 | 4667 | 232 | 146 | 365 | 708 | 255 | 150 | 155 | 215 |
| TTF 80 | 84 | 7700 | 5133 | 245 | 154 | 386 | 750 | 270 | 155 | 165 | 253 |
| TTF 84 | 88 | 8500 | 5667 | 256 | 161 | 404 | 781 | 280 | 165 | 170 | 289 |
| TTF 88 | 92 | 9400 | 6267 | 282 | 179 | 442 | 827 | 300 | 175 | 180 | 349 |
| TTF 92 | 96 | 10200 | 6800 | 293 | 187 | 462 | 868 | 315 | 185 | 190 | 400 |
| TTF 96 | 100 | 11100 | 7400 | 305 | 194 | 482 | 899 | 325 | 190 | 200 | 448 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D2** |
| **REDAELLI Fixed Fork Socket – Galvanized steel TTF** | |

## ANNEX D3

| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | C (mm) | $D_{HOLE}$ (mm) | E (mm) | F (mm) | S max (mm) | T min (mm) | T max (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TTF 100 | 104 | 12000 | 8000 | 320 | 202 | 502 | 945 | 345 | 195 | 205 | 509 |
| TTF 104 | 108 | 13000 | 8667 | 332 | 210 | 522 | 976 | 355 | 205 | 215 | 566 |
| TTF 108 | 112 | 14000 | 9333 | 345 | 218 | 544 | 1017 | 370 | 210 | 225 | 632 |
| TTF 112 | 116 | 15200 | 10133 | 362 | 227 | 570 | 1058 | 385 | 215 | 230 | 707 |
| TTF 116 | 120 | 16150 | 10767 | 375 | 236 | 592 | 1094 | 400 | 225 | 240 | 787 |
| TTF 120 | 124 | 17400 | 11600 | 388 | 243 | 612 | 1130 | 410 | 230 | 250 | 872 |
| TTF 124 | 128 | 18450 | 12300 | 400 | 252 | 632 | 1171 | 430 | 240 | 255 | 957 |
| TTF 128 | 132 | 19800 | 13200 | 412 | 259 | 650 | 1207 | 440 | 250 | 265 | 1055 |
| TTF 132 | 136 | 20900 | 13933 | 425 | 267 | 672 | 1238 | 450 | 255 | 270 | 1144 |
| TTF 136 | 140 | 22200 | 14800 | 438 | 275 | 692 | 1279 | 465 | 265 | 280 | 1254 |
| TTF 140 | 144 | 23500 | 15667 | 452 | 283 | 715 | 1315 | 475 | 270 | 290 | 1364 |
| TTF 144 | 148 | 24850 | 16567 | 466 | 292 | 736 | 1351 | 490 | 280 | 300 | 1492 |
| TTF 148 | 152 | 26250 | 17500 | 479 | 300 | 756 | 1387 | 500 | 290 | 310 | 1610 |
| TTF 152 | 156 | 27700 | 18467 | 492 | 308 | 776 | 1423 | 515 | 295 | 320 | 1741 |
| TTF 156 | 160 | 29150 | 19433 | 505 | 316 | 796 | 1459 | 525 | 300 | 330 | 1879 |

(1) Minimum breaking load of the end connector.

(2) Informative: $N_{R,d}$ applies to the end connector without considering the rope and is determined based on EN 1993-1-11:2006+AC:2009 (6.2) ($N_{R,d} = (N_{u,k} / 1,5) / \gamma_R$) with a partial factor $\gamma_R = 1,0$ (transferred from the load capacity of a rope).

$F_{uk} = \min\{ F_{1,u,k} ; N_{u,k} \}$ with: $F_{1,u,k} = F_{min} \times k_e$ with $F_{min}$ see annex C1 to C5

$k_e = 1,0$ for metal or resin filled sockets

$k_e = 0,9$ for swaged sockets

and: $N_{u,k}$ see Annex D2 to D72

Dimensions $T_{min}$, $T_{max}$ and S refer to the supporting structure (gusset plate) and have to be proven separately (e.g. EN 1993-1-8: 2005+AC:2009).

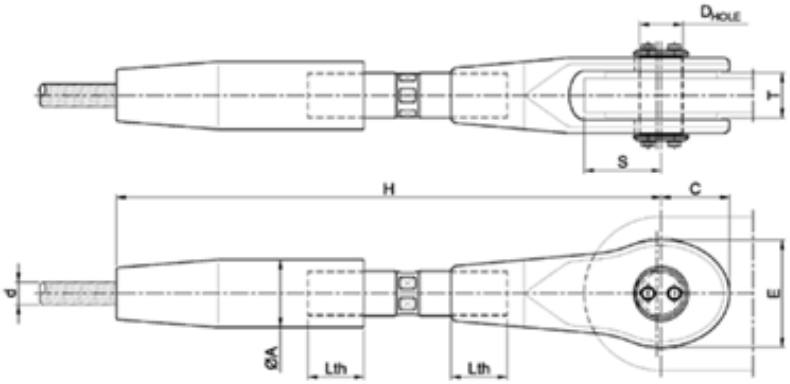
**REDAELLI Cable System**

**REDAELLI Fixed Fork Socket – Galvanized steel TTF**

**Annex D3**

## ANNEX D4

### Adjustable fork sockets TBF




The minimum screw in length of the threaded rod is ≥ 1,0 x thread-Ø on each side.
Dimension H plus adjustment must not be exceeded and the threaded rod is screwed in symmetrically.

| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | C (mm) | $D_{HOLE}$ (mm) | E (mm) | ØA (mm) | H (mm) | S max (mm) | T min (mm) | T max (mm) | $L_{th}$ (mm) | Adjust (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TBF 12 | 15 | 190 | 127 | 38 | 25,5 | 60 | 40 | 313 | 50 | 16 | 22 | 30 | ± 30 | 2,3 |
| TBF 16 | 19 | 320 | 213 | 48 | 32 | 78 | 55 | 398 | 60 | 24 | 30 | 40 | ± 40 | 5,3 |
| TBF 20 | 24 | 490 | 327 | 60 | 39 | 94 | 65 | 483 | 75 | 30 | 37 | 50 | ± 50 | 9,2 |
| TBF 24 | 28 | 700 | 467 | 72 | 46 | 112 | 75 | 588 | 85 | 38 | 45 | 60 | ± 65 | 15 |
| TBF 28 | 32 | 970 | 647 | 84 | 54 | 132 | 90 | 675 | 100 | 50 | 56 | 65 | ± 75 | 24 |
| TBF 32 | 36 | 1285 | 857 | 95 | 61 | 150 | 100 | 779 | 110 | 55 | 60 | 75 | ± 90 | 35 |
| TBF 36 | 40 | 1615 | 1077 | 104 | 67 | 164 | 110 | 873 | 120 | 65 | 70 | 90 | ± 100 | 49 |
| TBF 40 | 44 | 1955 | 1303 | 120 | 76 | 188 | 120 | 968 | 135 | 70 | 75 | 105 | ± 110 | 65 |
| TBF 44 | 48 | 2350 | 1567 | 130 | 83 | 205 | 130 | 1057 | 145 | 80 | 85 | 115 | ± 120 | 87 |
| TBF 48 | 52 | 2765 | 1843 | 140 | 90 | 220 | 145 | 1152 | 155 | 90 | 95 | 125 | ± 130 | 117 |
| TBF 52 | 56 | 3300 | 2200 | 154 | 98 | 242 | 155 | 1247 | 170 | 95 | 105 | 135 | ± 140 | 143 |
| TBF 56 | 60 | 3900 | 2600 | 172 | 109 | 270 | 165 | 1347 | 185 | 105 | 110 | 150 | ± 150 | 179 |
| TBF 60 | 64 | 4400 | 2933 | 182 | 116 | 286 | 180 | 1432 | 205 | 115 | 120 | 160 | ± 160 | 221 |
| TBF 64 | 68 | 5000 | 3333 | 196 | 124 | 308 | 190 | 1547 | 215 | 125 | 130 | 170 | ± 180 | 269 |
| TBF 68 | 72 | 5550 | 3700 | 208 | 131 | 325 | 200 | 1662 | 230 | 130 | 135 | 175 | ± 200 | 317 |
| TBF 72 | 76 | 6250 | 4167 | 218 | 138 | 345 | 210 | 1752 | 240 | 140 | 145 | 190 | ± 200 | 370 |
| TBF 76 | 80 | 7000 | 4667 | 232 | 146 | 365 | 225 | 1826 | 255 | 150 | 155 | 200 | ± 200 | 440 |
| TBF 80 | 84 | 7700 | 5133 | 245 | 154 | 386 | 235 | 1917 | 270 | 155 | 165 | 210 | ± 200 | 509 |
| TBF 84 | 88 | 8500 | 5667 | 256 | 161 | 404 | 245 | 1992 | 280 | 165 | 170 | 240 | ± 200 | 584 |
| TBF 88 | 92 | 9400 | 6267 | 282 | 179 | 442 | 260 | 2082 | 300 | 175 | 180 | 250 | ± 200 | 692 |
| TBF 92 | 96 | 10200 | 6800 | 293 | 187 | 462 | 270 | 2196 | 315 | 185 | 190 | 260 | ± 200 | 789 |

**REDAELLI Cable System**

**REDAELLI Adjustable Fork Socket – Galvanized steel TBF**

**Annex D4**

## ANNEX D5

| Product Code | Cable diame-ter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | C (mm) | $D_{HOLE}$ (mm) | E (mm) | ØA (mm) | H max (mm) | S max (mm) | T min (mm) | T max (mm) | $L_{th}$ (mm) | Adjust (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TBF 96 | 100 | 11100 | 7400 | 305 | 194 | 482 | 280 | 2266 | 325 | 190 | 200 | 270 | ± 200 | 877 |
| TBF 100 | 104 | 12000 | 8000 | 320 | 202 | 502 | 295 | 2346 | 345 | 195 | 205 | 280 | ± 200 | 999 |
| TBF 104 | 108 | 13000 | 8667 | 332 | 210 | 522 | 305 | 2416 | 355 | 205 | 215 | 290 | ± 200 | 1104 |
| TBF 108 | 112 | 14000 | 9333 | 345 | 218 | 544 | 315 | 2491 | 370 | 210 | 225 | 300 | ± 200 | 1218 |
| TBF 112 | 116 | 15200 | 10133 | 362 | 227 | 570 | 325 | 2561 | 385 | 215 | 230 | 310 | ± 200 | 1346 |
| TBF 116 | 120 | 16150 | 10767 | 375 | 236 | 592 | 340 | 2626 | 400 | 225 | 240 | 320 | ± 200 | 1499 |
| TBF 120 | 124 | 17400 | 11600 | 388 | 243 | 612 | 350 | 2691 | 410 | 230 | 250 | 330 | ± 200 | 1645 |
| TBF 124 | 128 | 18450 | 12300 | 400 | 252 | 632 | 360 | 2786 | 430 | 240 | 255 | 340 | ± 200 | 1798 |
| TBF 128 | 132 | 19800 | 13200 | 412 | 259 | 650 | 370 | 2861 | 440 | 250 | 265 | 350 | ± 210 | 1968 |
| TBF 132 | 136 | 20900 | 13933 | 425 | 267 | 672 | 380 | 2920 | 450 | 255 | 270 | 360 | ± 210 | 2123 |
| TBF 136 | 140 | 22200 | 14800 | 438 | 275 | 692 | 390 | 2988 | 465 | 265 | 280 | 370 | ± 210 | 2304 |
| TBF 140 | 144 | 23500 | 15667 | 452 | 283 | 715 | 410 | 3065 | 475 | 270 | 290 | 380 | ± 210 | 2545 |
| TBF 144 | 148 | 24850 | 16567 | 466 | 292 | 736 | 420 | 3128 | 490 | 280 | 300 | 390 | ± 210 | 2751 |
| TBF 148 | 152 | 26250 | 17500 | 479 | 300 | 756 | 430 | 3181 | 500 | 290 | 310 | 400 | ± 210 | 2965 |
| TBF 152 | 156 | 27700 | 18467 | 492 | 308 | 776 | 445 | 3249 | 515 | 295 | 320 | 410 | ± 210 | 3225 |
| TBF 156 | 160 | 29150 | 19433 | 505 | 316 | 796 | 455 | 3317 | 525 | 300 | 330 | 420 | ± 210 | 3467 |

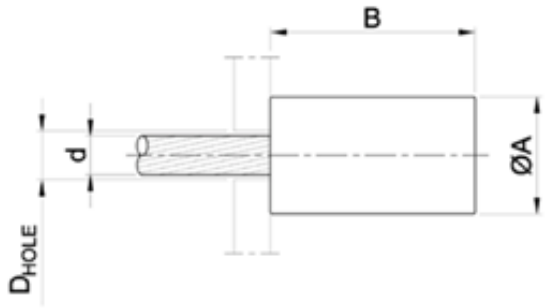
[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

Dimensions $T_{min}$, $T_{max}$ and S refer to the supporting structure (gusset plate) and have to be proven separately (e.g. EN 1993-1-8: 2005+AC:2009).

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D5** |
| **REDAELLI Adjustable Fork Socket – Galvanized steel TBF** | |

**ANNEX D6**

Fix cylindrical socket CYF




| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|
| CYF 12 | 15 | 190 | 127 | 40 | 63 | 23 | 0,4 |
| CYF 16 | 19 | 320 | 213 | 55 | 84 | 28 | 1,0 |
| CYF 20 | 24 | 490 | 327 | 65 | 105 | 35 | 1,8 |
| CYF 24 | 28 | 700 | 467 | 75 | 126 | 40 | 2,7 |
| CYF 28 | 32 | 970 | 647 | 90 | 147 | 45 | 4,8 |
| CYF 32 | 36 | 1285 | 857 | 100 | 168 | 50 | 6,6 |
| CYF 36 | 40 | 1615 | 1077 | 110 | 189 | 55 | 8,8 |
| CYF 40 | 44 | 1955 | 1303 | 120 | 210 | 61 | 12 |
| CYF 44 | 48 | 2350 | 1567 | 130 | 231 | 66 | 15 |
| CYF 48 | 52 | 2765 | 1843 | 145 | 252 | 71 | 20 |
| CYF 52 | 56 | 3300 | 2200 | 155 | 273 | 76 | 25 |
| CYF 56 | 60 | 3900 | 2600 | 165 | 294 | 81 | 30 |
| CYF 60 | 64 | 4400 | 2933 | 180 | 315 | 87 | 40 |
| CYF 64 | 68 | 5000 | 3333 | 190 | 336 | 92 | 47 |
| CYF 68 | 72 | 5550 | 3700 | 200 | 357 | 97 | 54 |
| CYF 72 | 76 | 6250 | 4167 | 210 | 378 | 102 | 63 |
| CYF 76 | 80 | 7000 | 4667 | 225 | 399 | 107 | 77 |
| CYF 80 | 84 | 7700 | 5133 | 235 | 420 | 113 | 89 |
| CYF 84 | 88 | 8500 | 5667 | 245 | 441 | 118 | 100 |
| CYF 88 | 92 | 9400 | 6267 | 260 | 462 | 123 | 120 |
| CYF 92 | 96 | 10200 | 6800 | 270 | 483 | 128 | 134 |
| CYF 96 | 100 | 11100 | 7400 | 280 | 504 | 133 | 149 |
| CYF 100 | 104 | 12000 | 8000 | 295 | 525 | 139 | 176 |
| CYF 104 | 108 | 13000 | 8667 | 305 | 546 | 144 | 194 |
| CYF 108 | 112 | 14000 | 9333 | 315 | 567 | 149 | 214 |
| CYF 112 | 116 | 15200 | 10133 | 325 | 588 | 154 | 234 |
| CYF 116 | 120 | 16150 | 10767 | 340 | 609 | 159 | 269 |
| CYF 120 | 124 | 17400 | 11600 | 350 | 630 | 165 | 294 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D6** |
| **REDAELLI Fix Cylindrical Socket – Galvanized steel CYF** | |

## ANNEX D7

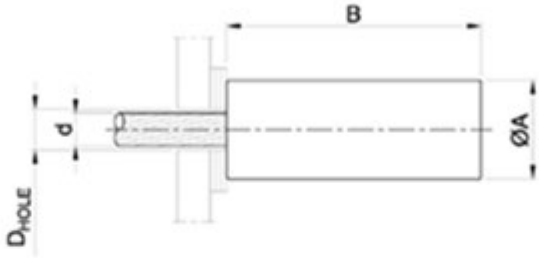
| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|
| CYF 124 | 128 | 18450 | 12300 | 360 | 651 | 170 | 320 |
| CYF 128 | 132 | 19800 | 13200 | 370 | 672 | 175 | 347 |
| CYF 132 | 136 | 20900 | 13933 | 380 | 693 | 180 | 375 |
| CYF 136 | 140 | 22200 | 14800 | 390 | 714 | 185 | 405 |
| CYF 140 | 144 | 23500 | 15667 | 410 | 735 | 191 | 475 |
| CYF 144 | 148 | 24850 | 16567 | 420 | 756 | 196 | 510 |
| CYF 148 | 152 | 26250 | 17500 | 430 | 777 | 201 | 546 |
| CYF 152 | 156 | 27700 | 18467 | 445 | 798 | 206 | 606 |
| CYF 156 | 160 | 29150 | 19433 | 455 | 819 | 211 | 647 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D7** |
| **REDAELLI Fix Cylindrical Socket – Galvanized steel CYF** | |

**ANNEX D8**

Fix cylindrical socket CYS




| Product code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|
| CYS 12 | 15 | 190 | 127 | 40 | 100 | 23 | 0,6 |
| CYS 16 | 19 | 320 | 213 | 55 | 130 | 28 | 1,5 |
| CYS 20 | 24 | 490 | 327 | 65 | 160 | 35 | 2,5 |
| CYS 24 | 28 | 700 | 467 | 75 | 190 | 40 | 3,7 |
| CYS 28 | 32 | 970 | 647 | 90 | 220 | 45 | 6,6 |
| CYS 32 | 36 | 1285 | 857 | 100 | 250 | 50 | 9,0 |
| CYS 36 | 40 | 1615 | 1077 | 110 | 285 | 55 | 12 |
| CYS 40 | 44 | 1955 | 1303 | 120 | 315 | 61 | 16 |
| CYS 44 | 48 | 2350 | 1567 | 130 | 345 | 66 | 19 |
| CYS 48 | 52 | 2765 | 1843 | 145 | 375 | 71 | 27 |
| CYS 52 | 56 | 3300 | 2200 | 155 | 405 | 76 | 34 |
| CYS 56 | 60 | 3900 | 2600 | 165 | 435 | 81 | 40 |
| CYS 60 | 64 | 4400 | 2933 | 180 | 465 | 87 | 53 |
| CYS 64 | 68 | 5000 | 3333 | 190 | 495 | 92 | 61 |
| CYS 68 | 72 | 5550 | 3700 | 200 | 525 | 97 | 72 |
| CYS 72 | 76 | 6250 | 4167 | 210 | 555 | 102 | 82 |
| CYS 76 | 80 | 7000 | 4667 | 225 | 585 | 107 | 102 |
| CYS 80 | 84 | 7700 | 5133 | 235 | 615 | 113 | 116 |
| CYS 84 | 88 | 8500 | 5667 | 245 | 645 | 118 | 132 |
| CYS 88 | 92 | 9400 | 6267 | 260 | 675 | 123 | 158 |
| CYS 92 | 96 | 10200 | 6800 | 270 | 705 | 128 | 176 |
| CYS 96 | 100 | 11100 | 7400 | 280 | 735 | 133 | 194 |
| CYS 100 | 104 | 12000 | 8000 | 295 | 765 | 139 | 232 |
| CYS 104 | 108 | 13000 | 8667 | 305 | 795 | 144 | 255 |
| CYS 108 | 112 | 14000 | 9333 | 315 | 825 | 149 | 279 |
| CYS 112 | 116 | 15200 | 10133 | 325 | 855 | 154 | 304 |
| CYS 116 | 120 | 16150 | 10767 | 340 | 885 | 159 | 349 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D8** |
| **REDAELLI Fix Cylindrical Socket – Galvanized steel CYS** | |

## ANNEX D9

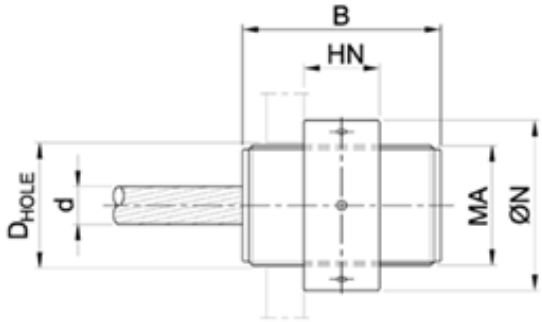
| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|
| CYS 120 | 124 | 17400 | 11600 | 350 | 915 | 165 | 384 |
| CYS 124 | 128 | 18450 | 12300 | 360 | 945 | 170 | 416 |
| CYS 128 | 132 | 19800 | 13200 | 370 | 975 | 175 | 449 |
| CYS 132 | 136 | 20900 | 13933 | 380 | 1005 | 180 | 483 |
| CYS 136 | 140 | 22200 | 14800 | 390 | 1035 | 185 | 525 |
| CYS 140 | 144 | 23500 | 15667 | 410 | 1065 | 191 | 619 |
| CYS 144 | 148 | 24850 | 16567 | 420 | 1095 | 196 | 662 |
| CYS 148 | 152 | 26250 | 17500 | 430 | 1125 | 201 | 713 |
| CYS 152 | 156 | 27700 | 18467 | 445 | 1155 | 206 | 791 |
| CYS 156 | 160 | 29150 | 19433 | 455 | 1185 | 211 | 842 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D9** |
| **REDAELLI Fix Cylindrical Socket – Galvanized steel CYS** | |

**ANNEX D10**

Adjustable cylindrical socket CYT




| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | MA (mm) | B (mm) | $D_{HOLE}$ (mm) | ØN (mm) | HN (mm) | Adjust. (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| CYT 12 | 15 | 190 | 127 | 45 | 63 | 48 | 65 | 25 | ±16 | 0,8 |
| CYT 16 | 19 | 320 | 213 | 55 | 84 | 59 | 80 | 35 | ±22 | 1,5 |
| CYT 20 | 24 | 490 | 327 | 70 | 105 | 75 | 100 | 40 | ±30 | 3,2 |
| CYT 24 | 28 | 700 | 467 | 80 | 126 | 85 | 115 | 50 | ±35 | 5,1 |
| CYT 28 | 32 | 970 | 647 | 90 | 147 | 95 | 130 | 60 | ±41 | 7,5 |
| CYT 32 | 36 | 1285 | 857 | 105 | 168 | 110 | 150 | 65 | ±49 | 12 |
| CYT 36 | 40 | 1615 | 1077 | 115 | 189 | 120 | 165 | 75 | ±53 | 15 |
| CYT 40 | 44 | 1955 | 1303 | 130 | 210 | 135 | 185 | 80 | ±61 | 22 |
| CYT 44 | 48 | 2350 | 1567 | 140 | 231 | 145 | 200 | 90 | ±67 | 28 |
| CYT 48 | 52 | 2765 | 1843 | 150 | 252 | 155 | 210 | 100 | ±72 | 34 |
| CYT 52 | 56 | 3300 | 2200 | 165 | 273 | 170 | 235 | 105 | ±80 | 46 |
| CYT 56 | 60 | 3900 | 2600 | 175 | 294 | 180 | 245 | 115 | ±86 | 54 |
| CYT 60 | 64 | 4400 | 2933 | 190 | 315 | 195 | 270 | 120 | ±92 | 69 |
| CYT 64 | 68 | 5000 | 3333 | 200 | 336 | 208 | 280 | 130 | ±97 | 80 |
| CYT 68 | 72 | 5550 | 3700 | 210 | 357 | 218 | 295 | 140 | ±103 | 94 |
| CYT 72 | 76 | 6250 | 4167 | 225 | 378 | 233 | 315 | 145 | ±111 | 114 |
| CYT 76 | 80 | 7000 | 4667 | 235 | 399 | 245 | 330 | 155 | ±114 | 130 |
| CYT 80 | 84 | 7700 | 5133 | 250 | 420 | 260 | 350 | 160 | ±122 | 156 |
| CYT 84 | 88 | 8500 | 5667 | 260 | 441 | 270 | 365 | 170 | ±128 | 178 |
| CYT 88 | 92 | 9400 | 6267 | 270 | 462 | 280 | 380 | 180 | ±133 | 202 |
| CYT 92 | 96 | 10200 | 6800 | 285 | 483 | 297 | 400 | 185 | ±139 | 232 |
| CYT 96 | 100 | 11100 | 7400 | 295 | 504 | 307 | 420 | 195 | ±145 | 265 |
| CYT 100 | 104 | 12000 | 8000 | 310 | 525 | 322 | 435 | 200 | ±153 | 300 |
| CYT 104 | 108 | 13000 | 8667 | 320 | 546 | 332 | 450 | 210 | ±158 | 334 |
| CYT 108 | 112 | 14000 | 9333 | 335 | 567 | 347 | 470 | 220 | ±162 | 378 |
| CYT 112 | 116 | 15200 | 10133 | 350 | 588 | 365 | 490 | 225 | ±170 | 427 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D10** |
| **REDAELLI Adjustable Cylindrical Socket – Galvanized steel CYT** | |

## ANNEX D11

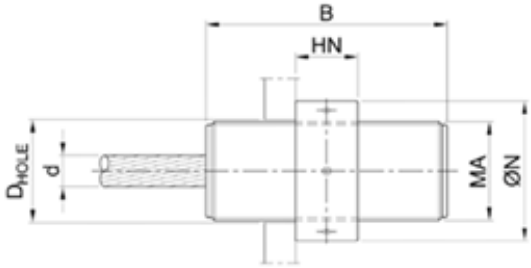
| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | MA (mm) | B (mm) | $D_{HOLE}$ (mm) | ØN (mm) | HN (mm) | Adjust. (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| CYT 116 | 120 | 16150 | 10767 | 360 | 609 | 375 | 510 | 235 | ±175 | 477 |
| CYT 120 | 124 | 17400 | 11600 | 370 | 630 | 385 | 520 | 240 | ±183 | 512 |
| CYT 124 | 128 | 18450 | 12300 | 385 | 651 | 405 | 540 | 250 | ±189 | 570 |
| CYT 128 | 132 | 19800 | 13200 | 395 | 672 | 415 | 560 | 260 | ±194 | 630 |
| CYT 132 | 136 | 20900 | 13933 | 410 | 693 | 430 | 580 | 265 | ±202 | 699 |
| CYT 136 | 140 | 22200 | 14800 | 420 | 714 | 440 | 590 | 275 | ±208 | 741 |
| CYT 140 | 144 | 23500 | 15667 | 435 | 735 | 460 | 610 | 280 | ±216 | 821 |
| CYT 144 | 148 | 24850 | 16567 | 445 | 756 | 470 | 630 | 290 | ±221 | 897 |
| CYT 148 | 152 | 26250 | 17500 | 455 | 777 | 480 | 640 | 300 | ±227 | 955 |
| CYT 152 | 156 | 27700 | 18467 | 470 | 798 | 500 | 660 | 305 | ±235 | 1046 |
| CYT 156 | 160 | 29150 | 19433 | 485 | 819 | 515 | 680 | 315 | ±240 | 1149 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D11** |
| **REDAELLI Adjustable Cylindrical Socket – Galvanized steel CYT** | |

## ANNEX D12

Adjustable cylindrical socket CYN




| Product Code | Cable diameter d max (mm) | $N_{u,k}$(1) (kN) | $N_{R,d}$(2) (kN) | MA (mm) | B (mm) | $D_{HOLE}$ (mm) | ØN (mm) | HN (mm) | Adjust. (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| CYN 12 | 15 | 190 | 127 | 45 | 100 | 48 | 65 | 25 | ±35 | 1,0 |
| CYN 16 | 19 | 320 | 213 | 55 | 130 | 59 | 80 | 35 | ±45 | 1,9 |
| CYN 20 | 24 | 490 | 327 | 70 | 160 | 75 | 100 | 40 | ±57 | 4,0 |
| CYN 24 | 28 | 700 | 467 | 80 | 190 | 5 | 115 | 50 | ±67 | 6,1 |
| CYN 28 | 32 | 970 | 647 | 90 | 220 | 95 | 130 | 60 | ±77 | 9,0 |
| CYN 32 | 36 | 1285 | 857 | 105 | 250 | 110 | 150 | 65 | ±90 | 14 |
| CYN 36 | 40 | 1615 | 1077 | 115 | 285 | 120 | 165 | 75 | ±101 | 19 |
| CYN 40 | 44 | 1955 | 1303 | 130 | 315 | 135 | 185 | 80 | ±114 | 27 |
| CYN 44 | 48 | 2350 | 1567 | 140 | 345 | 145 | 200 | 90 | ±124 | 34 |
| CYN 48 | 52 | 2765 | 1843 | 150 | 375 | 155 | 210 | 100 | ±134 | 41 |
| CYN 52 | 56 | 3300 | 2200 | 165 | 405 | 170 | 235 | 105 | ±146 | 56 |
| CYN 56 | 60 | 3900 | 2600 | 175 | 435 | 180 | 245 | 115 | ±156 | 65 |
| CYN 60 | 64 | 4400 | 2933 | 190 | 465 | 195 | 270 | 120 | ±167 | 83 |
| CYN 64 | 68 | 5000 | 3333 | 200 | 495 | 208 | 280 | 130 | ±177 | 96 |
| CYN 68 | 72 | 5550 | 3700 | 210 | 525 | 218 | 295 | 140 | ±187 | 113 |
| CYN 72 | 76 | 6250 | 4167 | 225 | 555 | 233 | 315 | 145 | ±199 | 138 |
| CYN 76 | 80 | 7000 | 4667 | 235 | 585 | 245 | 330 | 155 | ±207 | 155 |
| CYN 80 | 84 | 7700 | 5133 | 250 | 615 | 260 | 350 | 160 | ±220 | 187 |
| CYN 84 | 88 | 8500 | 5667 | 260 | 645 | 270 | 365 | 170 | ±230 | 214 |
| CYN 88 | 92 | 9400 | 6267 | 270 | 675 | 280 | 380 | 180 | ±240 | 241 |
| CYN 92 | 96 | 10200 | 6800 | 285 | 705 | 297 | 400 | 185 | ±250 | 277 |
| CYN 96 | 100 | 11100 | 7400 | 295 | 735 | 307 | 420 | 195 | ±260 | 314 |
| CYN 100 | 104 | 12000 | 8000 | 310 | 765 | 322 | 435 | 200 | ±273 | 361 |
| CYN 104 | 108 | 13000 | 8667 | 320 | 795 | 332 | 450 | 210 | ±283 | 399 |
| CYN 108 | 112 | 14000 | 9333 | 335 | 825 | 347 | 470 | 220 | ±291 | 450 |
| CYN 112 | 116 | 15200 | 10133 | 350 | 855 | 365 | 490 | 225 | ±303 | 510 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D12** |
| **REDAELLI Adjustable Cylindrical Socket – Galvanized steel CYN** | |

## ANNEX D13

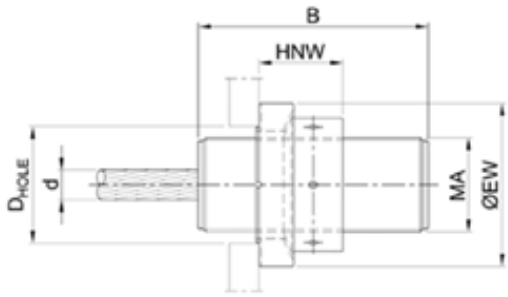
| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | MA (mm) | B (mm) | $D_{HOLE}$ (mm) | ØN (mm) | HN (mm) | Adjust. (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| CYN 116 | 120 | 16150 | 10767 | 360 | 885 | 375 | 510 | 235 | ±313 | 565 |
| CYN 120 | 124 | 17400 | 11600 | 370 | 915 | 385 | 520 | 240 | ±326 | 611 |
| CYN 124 | 128 | 18450 | 12300 | 385 | 945 | 405 | 540 | 250 | ±336 | 678 |
| CYN 128 | 132 | 19800 | 13200 | 395 | 975 | 415 | 560 | 260 | ±346 | 745 |
| CYN 132 | 136 | 20900 | 13933 | 410 | 1005 | 430 | 580 | 265 | ±358 | 829 |
| CYN 136 | 140 | 22200 | 14800 | 420 | 1035 | 440 | 590 | 275 | ±368 | 882 |
| CYN 140 | 144 | 23500 | 15667 | 435 | 1065 | 460 | 610 | 280 | ±381 | 978 |
| CYN 144 | 148 | 24850 | 16567 | 445 | 1095 | 470 | 630 | 290 | ±391 | 1063 |
| CYN 148 | 152 | 26250 | 17500 | 455 | 1126 | 480 | 640 | 300 | ±401 | 1130 |
| CYN 152 | 156 | 27700 | 18467 | 470 | 1154 | 500 | 660 | 305 | ±413 | 1246 |
| CYN 156 | 160 | 29150 | 19433 | 485 | 1183 | 515 | 680 | 315 | ±422 | 1370 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D13** |
| **REDAELLI Adjustable Cylindrical Socket – Galvanized steel CYN** | |

**ANNEX D14**

Adjustable cylindrical socket with spherical washer CYW




| Product Code | Cable diameter $d_{max}$ | $N_{u,k}$ (1) | $N_{R,d}$ (2) | MA | B | $D_{HOLE}$ | HNW | ØEW | Adjust. | Mass |
|---|---|---|---|---|---|---|---|---|---|---|
| | (mm) | (kN) | (kN) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (kg) |
| CYW 12 | 15 | 190 | 127 | 45 | 100 | 57 | 36 | 80 | ±34 | 1,5 |
| CYW 16 | 19 | 320 | 213 | 55 | 130 | 68 | 47 | 100 | ±44 | 2,7 |
| CYW 20 | 24 | 490 | 327 | 70 | 160 | 86 | 59 | 120 | ±56 | 5,3 |
| CYW 24 | 28 | 700 | 467 | 80 | 190 | 99 | 72 | 140 | ±66 | 8,4 |
| CYW 28 | 32 | 970 | 647 | 90 | 220 | 111 | 86 | 160 | ±75 | 12 |
| CYW 32 | 36 | 1285 | 857 | 105 | 250 | 130 | 95 | 180 | ±88 | 19 |
| CYW 36 | 40 | 1615 | 1077 | 115 | 285 | 143 | 107 | 200 | ±99 | 25 |
| CYW 40 | 44 | 1955 | 1303 | 130 | 315 | 161 | 116 | 230 | ±111 | 37 |
| CYW 44 | 48 | 2350 | 1567 | 140 | 345 | 174 | 125 | 240 | ±121 | 44 |
| CYW 48 | 52 | 2765 | 1843 | 150 | 375 | 186 | 140 | 260 | ±131 | 54 |
| CYW 52 | 56 | 3300 | 2200 | 165 | 405 | 205 | 147 | 290 | ±143 | 74 |
| CYW 56 | 60 | 3900 | 2600 | 175 | 435 | 217 | 163 | 300 | ±153 | 85 |
| CYW 60 | 64 | 4400 | 2933 | 190 | 465 | 236 | 170 | 330 | ±163 | 110 |
| CYW 64 | 68 | 5000 | 3333 | 200 | 495 | 248 | 181 | 340 | ±173 | 123 |
| CYW 68 | 72 | 5550 | 3700 | 210 | 525 | 261 | 195 | 360 | ±183 | 147 |
| CYW 72 | 76 | 6250 | 4167 | 225 | 555 | 279 | 203 | 380 | ±195 | 177 |
| CYW 76 | 80 | 7000 | 4667 | 235 | 585 | 292 | 222 | 400 | ±203 | 204 |
| CYW 80 | 84 | 7700 | 5133 | 250 | 615 | 310 | 226 | 410 | ±215 | 235 |
| CYW 84 | 88 | 8500 | 5667 | 260 | 645 | 323 | 235 | 420 | ±225 | 263 |
| CYW 88 | 92 | 9400 | 6267 | 270 | 675 | 336 | 254 | 440 | ±235 | 301 |
| CYW 92 | 96 | 10200 | 6800 | 285 | 705 | 354 | 268 | 460 | ±245 | 348 |
| CYW 96 | 100 | 11100 | 7400 | 295 | 735 | 367 | 275 | 490 | ±255 | 400 |
| CYW 100 | 104 | 12000 | 8000 | 310 | 765 | 385 | 290 | 510 | ±267 | 460 |
| CYW 104 | 108 | 13000 | 8667 | 320 | 795 | 398 | 299 | 520 | ±277 | 500 |
| CYW 108 | 112 | 14000 | 9333 | 335 | 825 | 415 | 318 | 550 | ±285 | 574 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D14** |
| **REDAELLI Adjustable Cylindrical Socket – Galvanized steel CYW** | |

## ANNEX D15

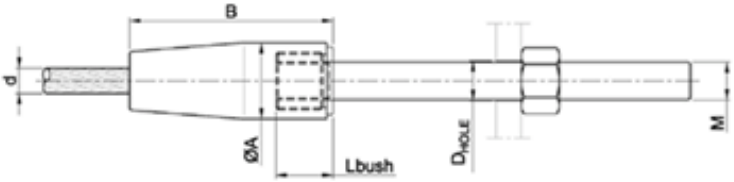
| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | MA (mm) | B (mm) | $D_{HOLE}$ (mm) | HNW (mm) | ØEW (mm) | Adjust. (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| CYW 112 | 116 | 15200 | 10133 | 350 | 855 | 434 | 322 | 570 | ±297 | 643 |
| CYW 116 | 120 | 16150 | 10767 | 360 | 885 | 446 | 329 | 580 | ±307 | 709 |
| CYW 120 | 124 | 17400 | 11600 | 370 | 915 | 460 | 334 | 590 | ±319 | 738 |
| CYW 124 | 128 | 18450 | 12300 | 385 | 945 | 477 | 353 | 600 | ±329 | 822 |
| CYW 128 | 132 | 19800 | 13200 | 395 | 975 | 490 | 361 | 620 | ±339 | 901 |
| CYW 132 | 136 | 20900 | 13933 | 410 | 1005 | 508 | 365 | 640 | ±351 | 994 |
| CYW 136 | 140 | 22200 | 14800 | 420 | 1035 | 521 | 395 | 650 | ±361 | 1071 |
| CYW 140 | 144 | 23500 | 15667 | 435 | 1065 | 539 | 398 | 680 | ±373 | 1191 |
| CYW 144 | 148 | 24850 | 16567 | 445 | 1095 | 552 | 406 | 700 | ±383 | 1292 |
| CYW 148 | 152 | 26250 | 17500 | 455 | 1126 | 565 | 421 | 710 | ±393 | 1369 |
| CYW 152 | 156 | 27700 | 18467 | 470 | 1154 | 583 | 425 | 730 | ±405 | 1495 |
| CYW 156 | 160 | 29150 | 19433 | 485 | 1183 | 601 | 439 | 750 | ±414 | 1639 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D15** |
| **REDAELLI Adjustable Cylindrical Socket – Galvanized steel CYW** | |

## ANNEX D16

Adjustable cylindrical socket CYB




The minimum screw in length of the threaded rod is $L_{bush}$ (fully screwed in) and must be respected.

| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | M (mm) | $L_{bush}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|
| CYB 12 | 15 | 160 | 107 | 40 | 107 | 21,5 | 20 x 2.5 | 38 | 0.5 |
| CYB 16 | 19 | 280 | 187 | 55 | 140 | 26 | 24 x 3 | 48 | 1.4 |
| CYB 20 | 24 | 440 | 293 | 65 | 170 | 32 | 30 x 3.5 | 55 | 2.4 |
| CYB 24 | 28 | 620 | 413 | 75 | 200 | 38 | 36 x 3 | 62 | 3.7 |
| CYB 28 | 32 | 850 | 567 | 90 | 230 | 45 | 42 x 3 | 69 | 6.2 |
| CYB 32 | 36 | 1150 | 767 | 100 | 260 | 51 | 48 x 3 | 76 | 8.5 |
| CYB 36 | 40 | 1400 | 933 | 110 | 295 | 55 | 52 x 3 | 88 | 12 |
| CYB 40 | 44 | 1750 | 1167 | 120 | 325 | 63 | 60 x 4 | 95 | 15 |
| CYB 44 | 48 | 2100 | 1400 | 130 | 360 | 67 | 64 x 4 | 107 | 20 |
| CYB 48 | 52 | 2500 | 1667 | 145 | 390 | 75 | 72 x 4 | 114 | 27 |
| CYB 52 | 56 | 2950 | 1967 | 155 | 420 | 84 | 80 x 6 | 121 | 32 |
| CYB 56 | 60 | 3400 | 2267 | 165 | 450 | 89 | 85 x 6 | 128 | 39 |
| CYB 60 | 64 | 3900 | 2600 | 180 | 480 | 94 | 90 x 6 | 135 | 51 |
| CYB 64 | 68 | 4500 | 3000 | 190 | 510 | 99 | 95 x 6 | 142 | 60 |
| CYB 68 | 72 | 5000 | 3333 | 200 | 540 | 109 | 105 x 6 | 149 | 69 |
| CYB 72 | 76 | 5600 | 3733 | 210 | 575 | 114 | 110 x 6 | 161 | 80 |
| CYB 76 | 80 | 6300 | 4200 | 225 | 605 | 124 | 120 x 6 | 168 | 97 |
| CYB 80 | 84 | 7000 | 4667 | 235 | 635 | 130 | 125 x 6 | 175 | 111 |
| CYB 84 | 88 | 7700 | 5133 | 245 | 665 | 135 | 130 x 6 | 182 | 126 |
| CYB 88 | 92 | 8500 | 5667 | 260 | 695 | 140 | 135 x 6 | 189 | 150 |
| CYB 92 | 96 | 9300 | 6200 | 270 | 725 | 145 | 140 x 6 | 196 | 168 |
| CYB 96 | 100 | 10100 | 6733 | 280 | 755 | 150 | 145 x 6 | 203 | 188 |
| CYB 100 | 104 | 10900 | 7267 | 295 | 785 | 160 | 155 x 6 | 210 | 218 |
| CYB 104 | 108 | 11800 | 7867 | 305 | 815 | 165 | 160 x 6 | 217 | 242 |
| CYB 108 | 112 | 12700 | 8467 | 315 | 845 | 170 | 165 x 8 | 224 | 267 |
| CYB 112 | 116 | 13900 | 9267 | 325 | 875 | 180 | 175 x 8 | 231 | 291 |
| CYB 116 | 120 | 14900 | 9933 | 340 | 905 | 185 | 180 x 8 | 238 | 331 |
| CYB 120 | 124 | 15900 | 10600 | 350 | 935 | 190 | 185 x 8 | 245 | 364 |
| CYB 124 | 128 | 17000 | 11333 | 360 | 965 | 195 | 190 x 8 | 252 | 397 |

**REDAELLI Cable System**

**REDAELLI Adjustable Cylindrical Socket – Galvanized steel CYB**

**Annex D16**

## ANNEX D17

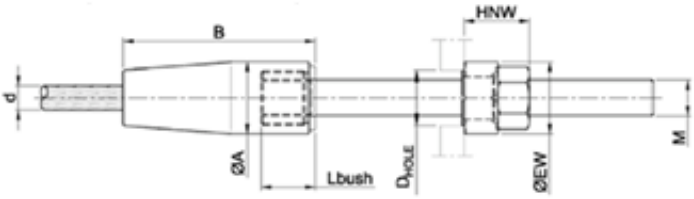
| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | M (mm) | $L_{bush}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|
| CYB 128 | 132 | 18100 | 12067 | 370 | 995 | 215 | 210 x 8 | 259 | 422 |
| CYB 132 | 136 | 19200 | 12800 | 380 | 1025 | 225 | 220 x 10 | 266 | 454 |
| CYB 136 | 140 | 20400 | 13600 | 390 | 1055 | 235 | 230 x 10 | 273 | 488 |
| CYB 140 | 144 | 21600 | 14400 | 410 | 1085 | 235 | 230 x 10 | 280 | 571 |
| CYB 144 | 148 | 22900 | 15267 | 420 | 1115 | 245 | 240 x 10 | 287 | 612 |
| CYB 148 | 152 | 24300 | 16200 | 425 | 1145 | 250 | 245 x 10 | 289 | 633 |
| CYB 152 | 156 | 25600 | 17067 | 435 | 1175 | 255 | 250 x 10 | 296 | 679 |
| CYB 156 | 160 | 26900 | 17933 | 445 | 1205 | 260 | 255 x 10 | 303 | 728 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D17** |
| **REDAELLI Adjustable Cylindrical Socket – Galvanized steel CYB** | |

**ANNEX D18**

## Adjustable cylindrical socket with spherical washer CYR




The minimum screw in length of the threaded rod is $L_{bush}$ (fully screwed in) and must be respected.

| Product Code | Cable diameter max $d_{max}$ (mm) | $N_{a,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | ØEW (mm) | HNW (mm) | M (mm) | $L_{bush}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CYR 12 | 15 | 160 | 107 | 40 | 107 | 31 | 40 | 39 | 20 x 2,5 | 38 | 0,7 |
| CYR 16 | 19 | 280 | 187 | 55 | 140 | 38 | 50 | 48 | 24 x 3 | 48 | 1,7 |
| CYR 20 | 24 | 440 | 293 | 65 | 170 | 46 | 60 | 53 | 30 x 3,5 | 55 | 2,8 |
| CYR 24 | 28 | 620 | 413 | 75 | 200 | 55 | 80 | 63 | 36 x 3 | 62 | 4,6 |
| CYR 28 | 32 | 850 | 567 | 90 | 230 | 65 | 90 | 78 | 42 x 3 | 69 | 7,6 |
| CYR 32 | 36 | 1150 | 767 | 100 | 260 | 74 | 100 | 88 | 48 x 3 | 76 | 10 |
| CYR 36 | 40 | 1400 | 933 | 110 | 295 | 81 | 110 | 95 | 52 x 3 | 88 | 14 |
| CYR 40 | 44 | 1750 | 1167 | 120 | 325 | 92 | 120 | 108 | 60 x 4 | 95 | 18 |
| CYR 44 | 48 | 2100 | 1400 | 130 | 360 | 99 | 130 | 117 | 64 x 4 | 107 | 24 |
| CYR 48 | 52 | 2500 | 1667 | 145 | 390 | 111 | 150 | 128 | 72 x 4 | 114 | 33 |
| CYR 52 | 56 | 2950 | 1967 | 155 | 420 | 122 | 170 | 141 | 80 x 6 | 121 | 41 |
| CYR 56 | 60 | 3400 | 2267 | 165 | 450 | 130 | 170 | 156 | 85 x 6 | 128 | 48 |
| CYR 60 | 64 | 3900 | 2600 | 180 | 480 | 138 | 180 | 163 | 90 x 6 | 135 | 62 |
| CYR 64 | 68 | 4500 | 3000 | 190 | 510 | 146 | 190 | 177 | 95 x 6 | 142 | 73 |
| CYR 68 | 72 | 5000 | 3333 | 200 | 540 | 160 | 210 | 186 | 105 x 6 | 149 | 86 |
| CYR 72 | 76 | 5600 | 3733 | 210 | 575 | 168 | 220 | 202 | 110 x 6 | 161 | 101 |
| CYR 76 | 80 | 6300 | 4200 | 225 | 605 | 181 | 240 | 210 | 120 x 6 | 168 | 121 |
| CYR 80 | 84 | 7000 | 4667 | 235 | 635 | 189 | 250 | 224 | 125 x 6 | 175 | 140 |
| CYR 84 | 88 | 7700 | 5133 | 245 | 665 | 197 | 260 | 229 | 130 x 6 | 182 | 158 |
| CYR 88 | 92 | 8500 | 5667 | 260 | 695 | 206 | 270 | 242 | 135 x 6 | 189 | 187 |
| CYR 92 | 96 | 9300 | 6200 | 270 | 725 | 213 | 280 | 247 | 140 x 6 | 196 | 208 |
| CYR 96 | 100 | 10100 | 6733 | 280 | 755 | 222 | 290 | 261 | 145 x 6 | 203 | 234 |
| CYR 100 | 104 | 10900 | 7267 | 295 | 785 | 235 | 310 | 270 | 155 x 6 | 210 | 271 |
| CYR 104 | 108 | 11800 | 7867 | 305 | 815 | 243 | 320 | 285 | 160 x 6 | 217 | 302 |
| CYR 108 | 112 | 12700 | 8467 | 315 | 845 | 251 | 330 | 298 | 165 x 8 | 224 | 335 |
| CYR 112 | 116 | 13900 | 9267 | 325 | 875 | 265 | 350 | 307 | 175 x 8 | 231 | 368 |
| CYR 116 | 120 | 14900 | 9933 | 340 | 905 | 273 | 360 | 323 | 180 x 8 | 238 | 418 |
| CYR 120 | 124 | 15900 | 10600 | 350 | 935 | 281 | 370 | 327 | 185 x 8 | 245 | 456 |

**REDAELLI Cable System**

**REDAELLI Adjustable Cylindrical Socket – Galvanized steel CYR**

**Annex D18**

## ANNEX D19

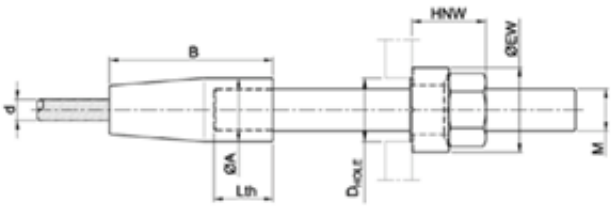
| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | ØEW (mm) | HNW (mm) | M (mm) | $L_{bush}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CYR 124 | 128 | 17000 | 11333 | 360 | 965 | 289 | 380 | 342 | 190 x 8 | 252 | 500 |
| CYR 128 | 132 | 18100 | 12067 | 370 | 995 | 314 | 410 | 358 | 210 x 8 | 259 | 539 |
| CYR 132 | 136 | 19200 | 12800 | 380 | 1025 | 327 | 430 | 367 | 220 x 10 | 266 | 583 |
| CYR 136 | 140 | 20400 | 13600 | 390 | 1055 | 340 | 450 | 376 | 230 x 10 | 273 | 630 |
| CYR 140 | 144 | 21600 | 14400 | 410 | 1085 | 343 | 450 | 386 | 230 x 10 | 280 | 722 |
| CYR 144 | 148 | 22900 | 15267 | 420 | 1115 | 356 | 470 | 395 | 240 x 10 | 287 | 776 |
| CYR 148 | 152 | 24300 | 16200 | 425 | 1145 | 364 | 480 | 409 | 245 x 10 | 289 | 814 |
| CYR 152 | 156 | 25600 | 17067 | 435 | 1175 | 372 | 490 | 414 | 250 x 10 | 296 | 867 |
| CYR 156 | 160 | 26900 | 17933 | 445 | 1205 | 380 | 500 | 429 | 255 x 10 | 303 | 934 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D19** |
| **REDAELLI Adjustable Cylindrical Socket – Galvanized steel CYR** | |

## ANNEX D20

### Adjustable cylindrical socket with spherical washer CYV




The minimum screw in length of the threaded rod is $L_{th}$ (fully screwed in) and must be respected.

| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | ØEW (mm) | HNW (mm) | M (mm) | $L_{th}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CYV 12 | 15 | 190 | 127 | 40 | 99 | 38 | 60 | 45 | 27 x 3 | 30 | 0,8 |
| CYV 16 | 19 | 320 | 213 | 55 | 132 | 51 | 80 | 58 | 36 x 3 | 40 | 2,0 |
| CYV 20 | 24 | 490 | 327 | 65 | 168 | 60 | 90 | 63 | 42 x 3 | 50 | 3,1 |
| CYV 24 | 28 | 700 | 467 | 75 | 201 | 78 | 120 | 81 | 50 x 3 | 60 | 5,5 |
| CYV 28 | 32 | 970 | 647 | 90 | 229 | 80 | 120 | 91 | 56 x 4 | 65 | 8,3 |
| CYV 32 | 36 | 1285 | 857 | 100 | 264 | 92 | 130 | 104 | 64 x 4 | 75 | 11 |
| CYV 36 | 40 | 1615 | 1077 | 110 | 302 | 103 | 140 | 113 | 72 x 4 | 90 | 15 |
| CYV 40 | 44 | 1955 | 1303 | 120 | 340 | 114 | 150 | 126 | 80 x 4 | 105 | 19 |
| CYV 44 | 48 | 2350 | 1567 | 130 | 378 | 128 | 190 | 138 | 90 x 6 | 115 | 27 |
| CYV 48 | 52 | 2765 | 1843 | 145 | 411 | 141 | 210 | 152 | 100 x 6 | 125 | 37 |
| CYV 52 | 56 | 3300 | 2200 | 155 | 444 | 150 | 230 | 161 | 105 x 6 | 135 | 48 |
| CYV 56 | 60 | 3900 | 2600 | 165 | 482 | 163 | 250 | 180 | 115 x 6 | 150 | 59 |
| CYV 60 | 64 | 4400 | 2933 | 180 | 515 | 171 | 240 | 190 | 120 x 6 | 160 | 70 |
| CYV 64 | 68 | 5000 | 3333 | 190 | 548 | 185 | 260 | 209 | 130 x 6 | 170 | 84 |
| CYV 68 | 72 | 5550 | 3700 | 200 | 576 | 193 | 270 | 212 | 135 x 6 | 175 | 96 |
| CYV 72 | 76 | 6250 | 4167 | 210 | 614 | 201 | 280 | 227 | 140 x 6 | 190 | 114 |
| CYV 76 | 80 | 7000 | 4667 | 225 | 647 | 214 | 300 | 236 | 150 x 6 | 200 | 136 |
| CYV 80 | 84 | 7700 | 5133 | 235 | 680 | 229 | 320 | 255 | 160 x 6 | 210 | 158 |
| CYV 84 | 88 | 8500 | 5667 | 245 | 733 | 236 | 330 | 258 | 165 x 6 | 240 | 182 |
| CYV 88 | 92 | 9400 | 6267 | 260 | 766 | 250 | 350 | 277 | 175 x 6 | 250 | 217 |
| CYV 92 | 96 | 10200 | 6800 | 270 | 799 | 263 | 370 | 287 | 185 x 8 | 260 | 241 |
| CYV 96 | 100 | 11100 | 7400 | 280 | 832 | 272 | 380 | 302 | 190 x 8 | 270 | 272 |
| CYV 100 | 104 | 12000 | 8000 | 295 | 865 | 285 | 390 | 310 | 200 x 8 | 280 | 306 |
| CYV 104 | 108 | 13000 | 8667 | 305 | 898 | 293 | 410 | 323 | 205 x 8 | 290 | 349 |
| CYV 108 | 112 | 14000 | 9333 | 315 | 931 | 302 | 410 | 338 | 210 x 8 | 300 | 381 |
| CYV 112 | 116 | 15200 | 10133 | 325 | 964 | 315 | 430 | 347 | 220 x 8 | 310 | 416 |
| CYV 116 | 120 | 16150 | 10767 | 340 | 997 | 329 | 450 | 366 | 230 x 8 | 320 | 475 |

**REDAELLI Cable System**

**REDAELLI Adjustable Cylindrical Socket – Galvanized steel CYV**

**Annex D20**

## ANNEX D21

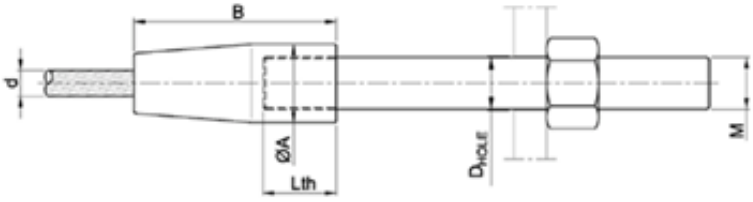
| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | ØEW (mm) | HNW (mm) | M (mm) | $L_{th}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CYV 120 | 124 | 17400 | 11600 | 350 | 1030 | 342 | 470 | 375 | 240 x 8 | 330 | 517 |
| CYV 124 | 128 | 18450 | 12300 | 360 | 1063 | 350 | 490 | 389 | 245 x 8 | 340 | 580 |
| CYV 128 | 132 | 19800 | 13200 | 370 | 1096 | 363 | 510 | 399 | 255 x 8 | 350 | 626 |
| CYV 132 | 136 | 20900 | 13933 | 380 | 1129 | 371 | 510 | 404 | 260 x 8 | 360 | 661 |
| CYV 136 | 140 | 22200 | 14800 | 390 | 1162 | 384 | 530 | 411 | 270 x 8 | 370 | 711 |
| CYV 140 | 144 | 23500 | 15667 | 410 | 1200 | 398 | 550 | 430 | 280 x 10 | 380 | 823 |
| CYV 144 | 148 | 24850 | 16567 | 420 | 1233 | 406 | 560 | 434 | 285 x 10 | 390 | 881 |
| CYV 148 | 152 | 26250 | 17500 | 430 | 1266 | 414 | 570 | 449 | 290 x 10 | 400 | 953 |
| CYV 152 | 156 | 27700 | 18467 | 445 | 1299 | 427 | 590 | 458 | 300 x 10 | 410 | 1042 |
| CYV 156 | 160 | 29150 | 19433 | 455 | 1332 | 441 | 610 | 477 | 310 x10 | 420 | 1123 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D21** |
| **REDAELLI Adjustable Cylindrical Socket – Galvanized steel CYV** | |

**ANNEX D22**

## Adjustable cylindrical socket CYM




The minimum screw in length of the threaded rod is $L_{th}$ (fully screwed in) and must be respected.

| Product Code | Cable diameter max $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | M (mm) | $L_{th}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|
| CYM 12 | 15 | 190 | 127 | 40 | 99 | 29 | 27 x 3 | 30 | 0,4 |
| CYM 16 | 19 | 320 | 213 | 55 | 132 | 38 | 36 x 3 | 40 | 1,2 |
| CYM 20 | 24 | 490 | 327 | 65 | 168 | 45 | 42 x 3 | 50 | 2,2 |
| CYM 24 | 28 | 700 | 467 | 75 | 201 | 59 | 50 x 3 | 60 | 3,5 |
| CYM 28 | 32 | 970 | 647 | 90 | 229 | 59 | 56 x 4 | 65 | 5,6 |
| CYM 32 | 36 | 1285 | 857 | 100 | 264 | 67 | 64 x 4 | 75 | 7,9 |
| CYM 36 | 40 | 1615 | 1077 | 110 | 302 | 75 | 72 x 4 | 90 | 11 |
| CYM 40 | 44 | 1955 | 1303 | 120 | 340 | 84 | 80 x 4 | 105 | 14 |
| CYM 44 | 48 | 2350 | 1567 | 130 | 378 | 94 | 90 x 6 | 115 | 18 |
| CYM 48 | 52 | 2765 | 1843 | 145 | 411 | 104 | 100 x 6 | 125 | 25 |
| CYM 52 | 56 | 3300 | 2200 | 155 | 444 | 109 | 105 x 6 | 135 | 31 |
| CYM 56 | 60 | 3900 | 2600 | 165 | 482 | 119 | 115 x 6 | 150 | 37 |
| CYM 60 | 64 | 4400 | 2933 | 180 | 515 | 124 | 120 x 6 | 160 | 50 |
| CYM 64 | 68 | 5000 | 3333 | 190 | 548 | 135 | 130 x 6 | 170 | 58 |
| CYM 68 | 72 | 5550 | 3700 | 200 | 576 | 140 | 135 x 6 | 175 | 68 |
| CYM 72 | 76 | 6250 | 4167 | 210 | 614 | 145 | 140 x 6 | 190 | 80 |
| CYM 76 | 80 | 7000 | 4667 | 225 | 647 | 155 | 150 x 6 | 200 | 97 |
| CYM 80 | 84 | 7700 | 5133 | 235 | 680 | 165 | 160 x 6 | 210 | 110 |
| CYM 84 | 88 | 8500 | 5667 | 245 | 733 | 170 | 165 x 6 | 240 | 130 |
| CYM 88 | 92 | 9400 | 6267 | 260 | 766 | 180 | 175 x 6 | 250 | 154 |
| CYM 92 | 96 | 10200 | 6800 | 270 | 799 | 190 | 185 x 8 | 260 | 170 |
| CYM 96 | 100 | 11100 | 7400 | 280 | 832 | 195 | 190 x 8 | 270 | 192 |
| CYM 100 | 104 | 12000 | 8000 | 295 | 865 | 205 | 200 x 8 | 280 | 223 |
| CYM 104 | 108 | 13000 | 8667 | 305 | 898 | 210 | 205 x 8 | 290 | 249 |
| CYM 108 | 112 | 14000 | 9333 | 315 | 931 | 215 | 210 x 8 | 300 | 276 |
| CYM 112 | 116 | 15200 | 10133 | 325 | 964 | 225 | 220 x 8 | 310 | 300 |
| CYM 116 | 120 | 16150 | 10767 | 340 | 997 | 235 | 230 x 8 | 320 | 341 |
| CYM 120 | 124 | 17400 | 11600 | 350 | 1030 | 245 | 240 x 8 | 330 | 370 |

**REDAELLI Cable System**

**REDAELLI Adjustable Cylindrical Socket – Galvanized steel CYM**

**Annex D22**

## ANNEX D23

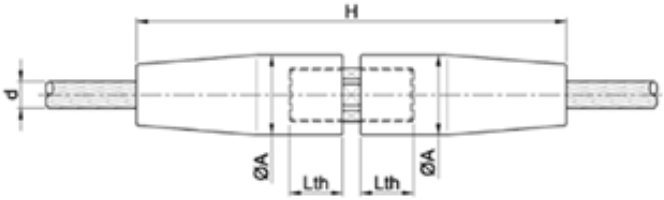
| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | M (mm) | $L_{th}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|
| CYM 124 | 128 | 18450 | 12300 | 360 | 1063 | 250 | 245 x 8 | 340 | 406 |
| CYM 128 | 132 | 19800 | 13200 | 370 | 1096 | 261 | 255 x 8 | 350 | 438 |
| CYM 132 | 136 | 20900 | 13933 | 380 | 1129 | 266 | 260 x 8 | 360 | 477 |
| CYM 136 | 140 | 22200 | 14800 | 390 | 1162 | 276 | 270 x 8 | 370 | 511 |
| CYM 140 | 144 | 23500 | 15667 | 410 | 1200 | 286 | 280 x 10 | 380 | 596 |
| CYM 144 | 148 | 24850 | 16567 | 420 | 1233 | 291 | 285 x 10 | 390 | 645 |
| CYM 148 | 152 | 26250 | 17500 | 430 | 1266 | 297 | 290 x 10 | 400 | 695 |
| CYM 152 | 156 | 27700 | 18467 | 445 | 1299 | 307 | 300 x 10 | 410 | 766 |
| CYM 156 | 160 | 29150 | 19433 | 455 | 1332 | 317 | 310 x 10 | 420 | 813 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D23** |
| **REDAELLI Adjustable Cylindrical Socket – Galvanized steel CYM** | |

**ANNEX D24**

## Cylindrical socket with coupler CYC




The minimum screw in length of the threaded rod is $L_{th}$ on each side (fully screwed in) and must be respected.

| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | H (mm) | $L_{th}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|
| CYC 12 | 15 | 190 | 127 | 40 | 216 | 30 | 1,2 |
| CYC 16 | 19 | 320 | 213 | 55 | 284 | 40 | 3,1 |
| CYC 20 | 24 | 490 | 327 | 65 | 350 | 50 | 5,4 |
| CYC 24 | 28 | 700 | 467 | 75 | 421 | 60 | 8,9 |
| CYC 28 | 32 | 970 | 647 | 90 | 482 | 65 | 14 |
| CYC 32 | 36 | 1285 | 857 | 100 | 554 | 75 | 20 |
| CYC 36 | 40 | 1615 | 1077 | 110 | 634 | 90 | 27 |
| CYC 40 | 44 | 1955 | 1303 | 120 | 685 | 105 | 36 |
| CYC 44 | 48 | 2350 | 1567 | 130 | 786 | 115 | 47 |
| CYC 48 | 52 | 2765 | 1843 | 145 | 852 | 125 | 66 |
| CYC 52 | 56 | 3300 | 2200 | 155 | 918 | 135 | 81 |
| CYC 56 | 60 | 3900 | 2600 | 165 | 1004 | 150 | 100 |
| CYC 60 | 64 | 4400 | 2933 | 180 | 1070 | 160 | 128 |
| CYC 64 | 68 | 5000 | 3333 | 190 | 1136 | 170 | 151 |
| CYC 68 | 72 | 5550 | 3700 | 200 | 1202 | 175 | 176 |
| CYC 72 | 76 | 6250 | 4167 | 210 | 1288 | 190 | 208 |
| CYC 76 | 80 | 7000 | 4667 | 225 | 1354 | 200 | 252 |
| CYC 80 | 84 | 7700 | 5133 | 235 | 1430 | 210 | 290 |
| CYC 84 | 88 | 8500 | 5667 | 245 | 1536 | 240 | 344 |
| CYC 88 | 92 | 9400 | 6267 | 260 | 1612 | 250 | 407 |
| CYC 92 | 96 | 10200 | 6800 | 270 | 1698 | 260 | 459 |
| CYC 96 | 100 | 11100 | 7400 | 280 | 1764 | 270 | 512 |
| CYC 100 | 104 | 12000 | 8000 | 295 | 1830 | 280 | 593 |
| CYC 104 | 108 | 13000 | 8667 | 305 | 1896 | 290 | 657 |
| CYC 108 | 112 | 14000 | 9333 | 315 | 1962 | 300 | 724 |
| CYC 112 | 116 | 15200 | 10133 | 325 | 2028 | 310 | 794 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D24** |
| **REDAELLI Cylindrical Socket with coupler – Galvanized steel CYC** | |

## ANNEX D25

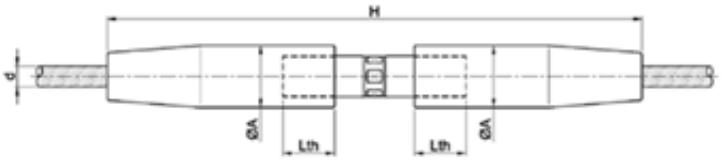
| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | ØA (mm) | H (mm) | $L_{th}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|
| CYC 116 | 120 | 16150 | 10767 | 340 | 2094 | 320 | 899 |
| CYC 120 | 124 | 17400 | 11600 | 350 | 2160 | 330 | 984 |
| CYC 124 | 128 | 18450 | 12300 | 360 | 2246 | 340 | 1080 |
| CYC 128 | 132 | 19800 | 13200 | 370 | 2312 | 350 | 1172 |
| CYC 132 | 136 | 20900 | 13933 | 380 | 2378 | 360 | 1270 |
| CYC 136 | 140 | 22200 | 14800 | 390 | 2444 | 370 | 1372 |
| CYC 140 | 144 | 23500 | 15667 | 410 | 2525 | 380 | 1577 |
| CYC 144 | 148 | 24850 | 16567 | 420 | 2591 | 390 | 1699 |
| CYC 148 | 152 | 26250 | 17500 | 430 | 2657 | 400 | 1824 |
| CYC 152 | 156 | 27700 | 18467 | 445 | 2723 | 410 | 2004 |
| CYC 156 | 160 | 29150 | 19433 | 455 | 2789 | 420 | 2142 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D25** |
| **REDAELLI Cylindrical Socket with coupler – Galvanized steel CYC** | |

## ANNEX D26

### Adjustable cylindrical socket with coupler CYA




The minimum screw in length of the threaded rod is ≥ 1,0 x thread-Ø on each side. Dimension H plus adjustment must not be exceeded and the threaded rod is screwed in symmetrically.

| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | H (mm) | Adjust. (mm) | $L_{th}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|
| CYA 12 | 15 | 190 | 127 | 40 | 326 | ± 30 | 30 | 2 |
| CYA 16 | 19 | 320 | 213 | 55 | 412 | ± 40 | 40 | 5 |
| CYA 20 | 24 | 490 | 327 | 65 | 506 | ± 50 | 50 | 8 |
| CYA 24 | 28 | 700 | 467 | 75 | 624 | ± 65 | 60 | 14 |
| CYA 28 | 32 | 970 | 647 | 90 | 709 | ± 75 | 65 | 21 |
| CYA 32 | 36 | 1285 | 857 | 100 | 828 | ± 90 | 75 | 30 |
| CYA 36 | 40 | 1615 | 1077 | 110 | 940 | ± 100 | 90 | 41 |
| CYA 40 | 44 | 1955 | 1303 | 120 | 1003 | ± 110 | 105 | 53 |
| CYA 44 | 48 | 2350 | 1567 | 130 | 1140 | ± 120 | 115 | 68 |
| CYA 48 | 52 | 2765 | 1843 | 145 | 1248 | ± 130 | 125 | 97 |
| CYA 52 | 56 | 3300 | 2200 | 155 | 1356 | ± 140 | 135 | 117 |
| CYA 56 | 60 | 3900 | 2600 | 165 | 1454 | ± 150 | 150 | 143 |
| CYA 60 | 64 | 4400 | 2933 | 180 | 1532 | ± 160 | 160 | 184 |
| CYA 64 | 68 | 5000 | 3333 | 190 | 1670 | ± 180 | 170 | 223 |
| CYA 68 | 72 | 5550 | 3700 | 200 | 1788 | ± 200 | 175 | 264 |
| CYA 72 | 76 | 6250 | 4167 | 210 | 1886 | ± 200 | 190 | 304 |
| CYA 76 | 80 | 7000 | 4667 | 225 | 1964 | ± 200 | 200 | 366 |
| CYA 80 | 84 | 7700 | 5133 | 235 | 2052 | ± 200 | 210 | 415 |
| CYA 84 | 88 | 8500 | 5667 | 245 | 2140 | ± 200 | 240 | 477 |
| CYA 88 | 92 | 9400 | 6267 | 260 | 2218 | ± 200 | 250 | 558 |
| CYA 92 | 96 | 10200 | 6800 | 270 | 2340 | ± 200 | 260 | 629 |
| CYA 96 | 100 | 11100 | 7400 | 280 | 2418 | ± 200 | 270 | 698 |
| CYA 100 | 104 | 12000 | 8000 | 295 | 2486 | ± 200 | 280 | 802 |
| CYA 104 | 108 | 13000 | 8667 | 305 | 2564 | ± 200 | 290 | 885 |
| CYA 108 | 112 | 14000 | 9333 | 315 | 2632 | ± 200 | 300 | 967 |
| CYA 112 | 116 | 15200 | 10133 | 325 | 2690 | ± 200 | 310 | 1051 |
| CYA 116 | 120 | 16150 | 10767 | 340 | 2748 | ± 200 | 320 | 1178 |
| CYA 120 | 124 | 17400 | 11600 | 350 | 2806 | ± 200 | 330 | 1277 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D26** |
| **REDAELLI Cylindrical Socket with coupler – Galvanized steel CYA** | |

## ANNEX D27

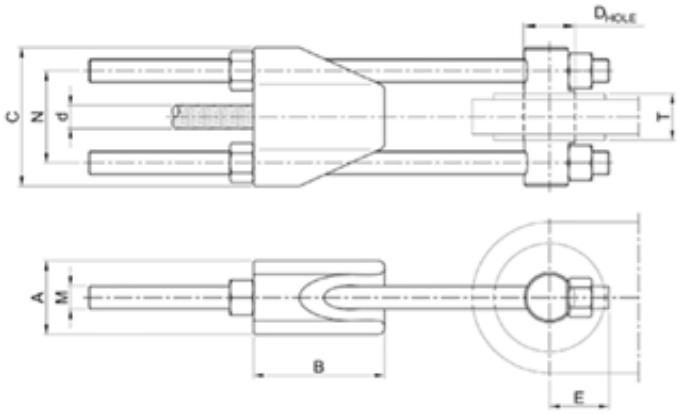
| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | ØA (mm) | H (mm) | Adjust. (mm) | $L_{th}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|
| CYA 124 | 128 | 18450 | 12300 | 360 | 2894 | ± 200 | 340 | 1391 |
| CYA 128 | 132 | 19800 | 13200 | 370 | 2962 | ± 210 | 350 | 1504 |
| CYA 132 | 136 | 20900 | 13933 | 380 | 3018 | ± 210 | 360 | 1613 |
| CYA 136 | 140 | 22200 | 14800 | 390 | 3072 | ± 210 | 370 | 1730 |
| CYA 140 | 144 | 23500 | 15667 | 410 | 3145 | ± 210 | 380 | 1953 |
| CYA 144 | 148 | 24850 | 16567 | 420 | 3199 | ± 210 | 390 | 2085 |
| CYA 148 | 152 | 26250 | 17500 | 430 | 3233 | ± 210 | 400 | 2243 |
| CYA 152 | 156 | 27700 | 18467 | 445 | 3297 | ± 210 | 410 | 2468 |
| CYA 156 | 160 | 29150 | 19433 | 455 | 3361 | ± 210 | 420 | 2643 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D27** |
| **REDAELLI Cylindrical Socket with coupler – Galvanized steel CYA** | |

## ANNEX D28

Bridge socket BRC




| Product Code | Cable diameter d max | $N_{u,k}$ (1) | $N_{R,d}$ (2) | A | B | C | $D_{HOLE}$ | E | M | N | T min | T max | Adjust | Mass |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (mm) | (kN) | (kN) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (kg) |
| BRC 12 | 15 | 160 | 107 | 40 | 66 | 80 | 32 | 37 | 16 x 2 | 56 | 16 | 22 | ± 150 | 3,5 |
| BRC 16 | 19 | 280 | 187 | 55 | 88 | 104 | 38 | 45 | 20 x 3 | 72 | 24 | 30 | ± 150 | 7,0 |
| BRC 20 | 24 | 440 | 293 | 65 | 110 | 126 | 47 | 55 | 24 x 3 | 86 | 30 | 37 | ± 150 | 11 |
| BRC 24 | 28 | 620 | 413 | 80 | 132 | 150 | 56 | 65 | 27 x 3 | 102 | 38 | 45 | ± 150 | 18 |
| BRC 28 | 32 | 850 | 567 | 90 | 154 | 174 | 66 | 78 | 33 x 3.5 | 118 | 50 | 56 | ± 150 | 27 |
| BRC 32 | 36 | 1150 | 767 | 105 | 176 | 198 | 72 | 85 | 36 x 3 | 134 | 55 | 60 | ± 200 | 39 |
| BRC 36 | 40 | 1400 | 933 | 120 | 198 | 220 | 80 | 94 | 39 x 3 | 148 | 65 | 70 | ± 200 | 50 |
| BRC 40 | 44 | 1750 | 1167 | 130 | 220 | 242 | 91 | 104 | 42 x 3 | 162 | 70 | 75 | ± 200 | 70 |
| BRC 44 | 48 | 2100 | 1400 | 140 | 242 | 268 | 97 | 114 | 48 x 3 | 180 | 80 | 85 | ± 200 | 92 |
| BRC 48 | 52 | 2500 | 1667 | 150 | 264 | 292 | 107 | 125 | 52 x 3 | 196 | 90 | 95 | ± 200 | 114 |
| BRC 52 | 56 | 2950 | 1967 | 170 | 286 | 316 | 117 | 136 | 56 x 4 | 212 | 95 | 105 | ± 200 | 139 |
| BRC 56 | 60 | 3400 | 2267 | 180 | 308 | 338 | 122 | 144 | 60 x 4 | 226 | 105 | 110 | ± 200 | 164 |
| BRC 60 | 64 | 3900 | 2600 | 190 | 330 | 358 | 131 | 150 | 60 x 4 | 238 | 115 | 120 | ± 200 | 181 |
| BRC 64 | 68 | 4500 | 3000 | 200 | 352 | 384 | 141 | 165 | 68 x 4 | 256 | 125 | 130 | ± 250 | 228 |
| BRC 68 | 72 | 5000 | 3333 | 220 | 374 | 408 | 151 | 176 | 72 x 4 | 272 | 130 | 135 | ± 250 | 270 |
| BRC 72 | 76 | 5600 | 3733 | 230 | 396 | 434 | 157 | 184 | 76 x 4 | 290 | 140 | 145 | ± 250 | 310 |
| BRC 76 | 80 | 6300 | 4200 | 240 | 418 | 456 | 171 | 198 | 80 x 4 | 304 | 150 | 155 | ± 250 | 359 |
| BRC 80 | 84 | 7000 | 4667 | 250 | 440 | 480 | 182 | 210 | 85 x 4 | 320 | 155 | 165 | ± 250 | 496 |
| BRC 84 | 88 | 7700 | 5133 | 270 | 462 | 504 | 191 | 221 | 90 x 6 | 336 | 165 | 170 | ± 250 | 561 |
| BRC 88 | 92 | 8500 | 5667 | 280 | 484 | 530 | 202 | 233 | 95 x 6 | 354 | 175 | 180 | ± 250 | 638 |
| BRC 92 | 96 | 9300 | 6200 | 290 | 506 | 560 | 212 | 251 | 105 x 6 | 376 | 185 | 190 | ± 250 | 761 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D28** |
| **REDAELLI Bridge Socket – Galvanized steel BRC** | |

## ANNEX D29

| Product Code | Cable diameter $d_{max}$ | $N_{a,k}$ (1) | $N_{R,d}$ (2) | A | B | C | $D_{HOLE}$ | E | M | N | T min | T max | Adjust. | Mass |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (mm) | (kN) | (kN) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (kg) |
| BRC 96 | 100 | 10100 | 6733 | 300 | 528 | 584 | 222 | 263 | 110 x 6 | 392 | 190 | 200 | ± 250 | 852 |
| BRC 100 | 104 | 10900 | 7267 | 310 | 550 | 608 | 232 | 274 | 115 x 6 | 408 | 195 | 205 | ± 300 | 949 |
| BRC 104 | 108 | 11800 | 7867 | 330 | 572 | 632 | 242 | 286 | 120 x 6 | 424 | 205 | 215 | ± 300 | 1063 |
| BRC 108 | 112 | 12700 | 8467 | 340 | 594 | 652 | 252 | 293 | 120 x 6 | 436 | 210 | 225 | ± 300 | 1125 |
| BRC 112 | 116 | 13900 | 9267 | 350 | 616 | 682 | 272 | 317 | 130 x 6 | 458 | 215 | 230 | ± 300 | 1314 |
| BRC 116 | 120 | 14900 | 9933 | 360 | 638 | 702 | 282 | 324 | 130 x 6 | 470 | 225 | 240 | ± 300 | 1387 |
| BRC 120 | 124 | 15900 | 10600 | 380 | 660 | 726 | 292 | 336 | 135 x 6 | 486 | 230 | 250 | ± 300 | 1533 |
| BRC 124 | 128 | 17000 | 11333 | 390 | 682 | 750 | 303 | 348 | 140 x 6 | 502 | 240 | 255 | ± 300 | 1674 |
| BRC 128 | 132 | 18100 | 12067 | 400 | 704 | 774 | 313 | 360 | 145 x 6 | 518 | 250 | 265 | ± 300 | 1822 |
| BRC 132 | 136 | 19200 | 12800 | 410 | 726 | 800 | 323 | 372 | 150 x 6 | 536 | 255 | 270 | ± 300 | 1981 |
| BRC 136 | 140 | 20400 | 13600 | 430 | 748 | 830 | 333 | 389 | 160 x 6 | 558 | 265 | 280 | ± 300 | 2232 |
| BRC 140 | 144 | 21600 | 14400 | 440 | 770 | 858 | 343 | 406 | 170 x 6 | 578 | 270 | 290 | ± 300 | 2479 |
| BRC 144 | 148 | 22900 | 15267 | 450 | 792 | 890 | 353 | 423 | 180 x 6 | 602 | 280 | 300 | ± 300 | 2749 |
| BRC 148 | 152 | 24300 | 16200 | 460 | 814 | 914 | 363 | 435 | 185 x 6 | 618 | 290 | 310 | ± 300 | 2948 |
| BRC 152 | 156 | 25600 | 17067 | 480 | 836 | 938 | 373 | 446 | 190 x 6 | 634 | 300 | 320 | ± 300 | 3178 |
| BRC 156 | 160 | 26900 | 17933 | 490 | 858 | 962 | 383 | 458 | 195 x 6 | 650 | 310 | 330 | ± 300 | 3398 |

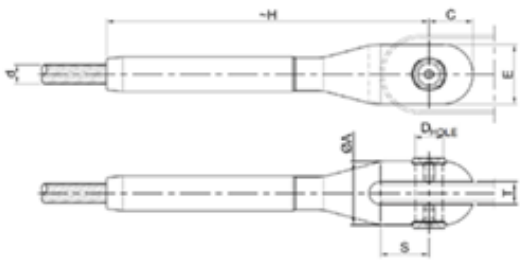
(1) Please refer to note (1) in Annex D3.
(2) Please refer to note (2) in Annex D3.

Dimensions $T_{min}$, $T_{max}$ refer to the supporting structure (gusset plate) and have to be proven separately (eg EN 1993-1-8: 2005+AC:2009).

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D29** |
| **REDAELLI Bridge Socket – Galvanized steel BRC** | |

## ANNEX D30

### Swaged Sockets MAC




| OPEN SWAGED SOCKET - 42CrMo4 (1.7225 EN ISO 683-2:2008) see Annex B | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Product Code | $N_{u.k}$ (1) (kN) | $N_{R.d}$ (2) (kN) | Cable Diameter $d_{min}$ /$d_{max}$ (mm) | ØA (mm) | ~H (mm) | C (mm) | E (mm) | $D_{HOLE}$ (mm) | S (mm) | T (mm) |
| MAC 6 | 34 | 20 | 5/6 | 23 | 102 | 15 | 21 | 10 | 16 | 8 |
| MAC 8 | 60 | 36 | 7/8 | 29 | 133 | 19 | 26 | 12 | 20 | 10 |
| MAC 10 | 94 | 56 | 9/10 | 35 | 165 | 24 | 32 | 15 | 25 | 12 |
| MAC 12 | 135 | 81 | 11/12 | 42 | 197 | 28 | 38 | 18 | 29 | 15 |
| MAC 14 | 184 | 110 | 13/14 | 46 | 227 | 31 | 43 | 20 | 35 | 15 |
| MAC 16 | 240 | 144 | 15/16 | 54 | 262 | 37 | 50 | 24 | 40 | 18 |
| MAC 18 | 304 | 182 | 17/18 | 62 | 295 | 42 | 57 | 27 | 45 | 22 |
| MAC 20 | 380 | 228 | 19/20 | 67 | 327 | 46 | 63 | 30 | 51 | 22 |
| MAC 22 | 460 | 276 | 21/22 | 72 | 356 | 49 | 67 | 32 | 54 | 25 |
| MAC 24 | 545 | 327 | 23/24 | 77 | 388 | 54 | 72 | 35 | 61 | 25 |
| MAC 26 | 640 | 384 | 25/26 | 82 | 421 | 57 | 77 | 37 | 67 | 25 |
| MAC 28 | 745 | 447 | 27/28 | 89 | 451 | 62 | 83 | 40 | 69 | 30 |
| MAC 30 | 856 | 514 | 29/30 | 95 | 484 | 66 | 89 | 42 | 75 | 30 |
| MAC 32 | 970 | 582 | 31/32 | 100 | 516 | 70 | 94 | 46 | 81 | 32 |
| MAC 34 | 1096 | 658 | 33/34 | 110 | 551 | 76 | 104 | 49 | 86 | 35 |
| MAC 36 | 1230 | 738 | 35/36 | 115 | 582 | 80 | 108 | 51 | 90 | 37 |
| MAC 38 | 1371 | 823 | 37/38 | 121 | 611 | 83 | 113 | 53 | 93 | 40 |
| MAC 40 | 1520 | 912 | 39/40 | 126 | 644 | 87 | 119 | 56 | 100 | 40 |
| MAC 42 | 1676 | 1006 | 41/42 | 132 | 676 | 91 | 124 | 58 | 104 | 42 |

(1) Please refer to note (1) in Annex D3.
(2) Please refer to note (2) in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D30** |
| **REDAELLI Swaged Socket – Galvanized steel MAC** | |

## ANNEX D31

| OPEN SWAGED SOCKET - S355J2 (EN10025-2) see Annex B | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Product Code | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | Cable Diameter $d_{min}$ /$d_{max}$ (mm) | ØA (mm) | ~H (mm) | C (mm) | E (mm) | $D_{HOLE}$ (mm) | S (mm) | T (mm) |
| MAC 6 | 34 | 20 | 5/6 | 25 | 104 | 16 | 23 | 10 | 16 | 8 |
| MAC 8 | 60 | 36 | 7/8 | 32 | 136 | 21 | 30 | 13 | 21 | 10 |
| MAC 10 | 94 | 56 | 9/10 | 38 | 167 | 25 | 35 | 15 | 25 | 12 |
| MAC 12 | 135 | 81 | 11/12 | 47 | 202 | 31 | 44 | 19 | 31 | 15 |
| MAC 14 | 184 | 110 | 13/14 | 51 | 233 | 35 | 48 | 21 | 36 | 15 |
| MAC 16 | 240 | 144 | 15/16 | 60 | 268 | 41 | 57 | 25 | 42 | 18 |
| MAC 18 | 304 | 182 | 17/18 | 69 | 301 | 46 | 65 | 28 | 45 | 22 |
| MAC 20 | 380 | 228 | 19/20 | 74 | 334 | 50 | 70 | 30 | 51 | 22 |
| MAC 22 | 460 | 276 | 21/22 | 81 | 366 | 55 | 76 | 33 | 56 | 25 |
| MAC 24 | 545 | 327 | 23/24 | 87 | 399 | 59 | 83 | 36 | 62 | 25 |
| MAC 26 | 640 | 384 | 25/26 | 92 | 431 | 63 | 88 | 38 | 68 | 25 |
| MAC 28 | 745 | 447 | 27/28 | 103 | 465 | 69 | 98 | 41 | 71 | 30 |
| MAC 30 | 856 | 514 | 29/30 | 109 | 500 | 75 | 104 | 45 | 79 | 30 |
| MAC 32 | 970 | 582 | 31/32 | 116 | 532 | 79 | 111 | 48 | 83 | 32 |
| MAC 34 | 1096 | 658 | 33/34 | 124 | 566 | 85 | 118 | 51 | 88 | 35 |
| MAC 36 | 1230 | 738 | 35/36 | 132 | 600 | 90 | 126 | 54 | 93 | 37 |
| MAC 38 | 1371 | 823 | 37/38 | 139 | 631 | 94 | 133 | 56 | 96 | 40 |
| MAC 40 | 1520 | 912 | 39/40 | 144 | 665 | 98 | 138 | 59 | 104 | 40 |
| MAC 42 | 1676 | 1006 | 41/42 | 154 | 703 | 106 | 148 | 64 | 111 | 42 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D31** |
| **REDAELLI Swaged Socket – Galvanized steel MAC** | |

## ANNEX D32

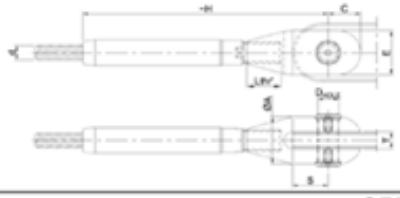
| OPEN SWAGED SOCKET - X2CrNiMoN22-5-3 (1.4462 EN 10088-3) see Annex B | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Product Code | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | Cable Diameter $d_{min}$ /$d_{max}$ (mm) | ØA (mm) | ~H (mm) | C (mm) | E (mm) | $D_{HOLE}$ (mm) | S (mm) | T (mm) |
| MAC 6 | 30 | 18 | 5/6 | 26 | 105 | 18 | 24 | 11 | 17 | 8 |
| MAC 8 | 55 | 33 | 7/8 | 33 | 139 | 22 | 31 | 14 | 22 | 10 |
| MAC 10 | 85 | 51 | 9/10 | 37 | 166 | 25 | 34 | 16 | 25 | 12 |
| MAC 12 | 120 | 72 | 11/12 | 45 | 200 | 30 | 42 | 19 | 30 | 15 |
| MAC 14 | 165 | 99 | 13/14 | 49 | 230 | 33 | 46 | 21 | 35 | 15 |
| MAC 16 | 220 | 132 | 15/16 | 58 | 265 | 40 | 54 | 25 | 41 | 18 |
| MAC 18 | 280 | 168 | 17/18 | 65 | 297 | 44 | 60 | 28 | 44 | 22 |
| MAC 20 | 345 | 207 | 19/20 | 71 | 330 | 49 | 67 | 31 | 51 | 22 |
| MAC 22 | 415 | 249 | 21/22 | 78 | 362 | 54 | 73 | 34 | 55 | 25 |
| MAC 24 | 495 | 297 | 23/24 | 82 | 393 | 57 | 77 | 36 | 60 | 25 |
| MAC 26 | 585 | 351 | 25/26 | 86 | 423 | 60 | 82 | 38 | 66 | 25 |
| MAC 28 | 675 | 405 | 27/28 | 94 | 455 | 65 | 88 | 41 | 69 | 30 |
| MAC 30 | 775 | 465 | 29/30 | 100 | 488 | 69 | 95 | 44 | 75 | 30 |
| MAC 32 | 885 | 531 | 31/32 | 106 | 519 | 74 | 100 | 47 | 80 | 32 |
| MAC 34 | 1000 | 600 | 33/34 | 114 | 554 | 79 | 108 | 50 | 84 | 35 |
| MAC 36 | 1120 | 672 | 35/36 | 119 | 583 | 82 | 112 | 52 | 88 | 37 |
| MAC 38 | 1250 | 750 | 37/38 | 125 | 614 | 86 | 118 | 54 | 91 | 40 |
| MAC 40 | 1385 | 831 | 39/40 | 131 | 647 | 91 | 124 | 57 | 98 | 40 |
| MAC 42 | 1530 | 918 | 41/42 | 136 | 676 | 94 | 129 | 59 | 102 | 42 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.
Dimensions T and S refer to the supporting structure (gusset plate) and have to be proven separately (eg EN 1993-1-8: 2005+AC:2009).

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D32** |
| **REDAELLI Swaged Socket – Stainless steel MAC** | |

## ANNEX D33

Sockets MAC-R



The minimum screw in length is ≥ 1,0 x thread-Ø.
Dimension H plus adjustment must not be exceeded.

**OPEN SWAGED SOCKET ADJUSTABLE**

–

**42CrMo4 (1.7225 EN ISO 683-2:2008)** see Annex B

| Product Code | $N_{u,k}$ [1] | $N_{R,d}$ [2] | Cable Diameter $d_{min}$ /$d_{max}$ | ØA | ~H | C | E | $D_{HOLE}$ | S | T | $L_{thr}$ | Adj +/- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (kN) | (kN) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| MAC-R 6 | 34 | 20 | 5/6 | 23 | 111 | 15 | 21 | 10 | 16 | 8 | 16 | 3 |
| MAC-R 8 | 60 | 36 | 7/8 | 29 | 145 | 19 | 26 | 12 | 20 | 10 | 23 | 4 |
| MAC-R 10 | 94 | 56 | 9/10 | 35 | 180 | 24 | 32 | 15 | 25 | 12 | 27 | 5 |
| MAC-R 12 | 135 | 81 | 11/12 | 42 | 215 | 28 | 38 | 18 | 29 | 15 | 32 | 6 |
| MAC-R 14 | 184 | 110 | 13/14 | 46 | 248 | 31 | 43 | 20 | 35 | 15 | 38 | 7 |
| MAC-R 16 | 240 | 144 | 15/16 | 54 | 286 | 37 | 50 | 24 | 40 | 18 | 45 | 8 |
| MAC-R 18 | 304 | 182 | 17/18 | 62 | 322 | 42 | 57 | 27 | 45 | 22 | 51 | 9 |
| MAC-R 20 | 380 | 228 | 19/20 | 67 | 357 | 46 | 63 | 30 | 51 | 22 | 56 | 10 |
| MAC-R 22 | 460 | 276 | 21/22 | 72 | 389 | 49 | 67 | 32 | 54 | 25 | 62 | 11 |
| MAC-R 24 | 545 | 327 | 23/24 | 77 | 424 | 54 | 72 | 35 | 61 | 25 | 68 | 12 |
| MAC-R 26 | 640 | 384 | 25/26 | 82 | 460 | 57 | 77 | 37 | 67 | 25 | 73 | 13 |
| MAC-R 28 | 745 | 447 | 27/28 | 89 | 493 | 62 | 83 | 40 | 69 | 30 | 79 | 14 |
| MAC-R 30 | 856 | 514 | 29/30 | 95 | 529 | 66 | 89 | 42 | 75 | 30 | 84 | 15 |
| MAC-R 32 | 970 | 582 | 31/32 | 100 | 564 | 70 | 94 | 46 | 81 | 32 | 90 | 16 |
| MAC-R 34 | 1096 | 658 | 33/34 | 110 | 602 | 76 | 104 | 49 | 86 | 35 | 97 | 17 |
| MAC-R 36 | 1230 | 738 | 35/36 | 115 | 636 | 80 | 108 | 51 | 90 | 37 | 99 | 18 |
| MAC-R 38 | 1371 | 823 | 37/38 | 121 | 668 | 83 | 113 | 53 | 93 | 40 | 106 | 19 |
| MAC-R 40 | 1520 | 912 | 39/40 | 126 | 704 | 87 | 119 | 56 | 100 | 40 | 112 | 20 |
| MAC-R 42 | 1676 | 1006 | 41/42 | 132 | 739 | 91 | 124 | 58 | 104 | 42 | 119 | 21 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.
Dimensions T and S refer to the supporting structure (gusset plate) and have to be proven separately (eg EN 1993-1-8: 2005+AC:2009).

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D33** |
| **REDAELLI Swaged Socket – Galvanized steel MAC-R** | |

## ANNEX D34

**OPEN SWAGED SOCKET ADJUSTABLE**
**S355J2 (EN10025-2)** see Annex B

| Product Code | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | Cable Diameter $d_{min}$ /$d_{max}$ (mm) | ØA (mm) | ~H (mm) | C (mm) | E (mm) | $D_{HOLE}$ (mm) | S (mm) | T (mm) | $L_{thr'}$ (mm) | Adj +/- (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAC-R 6 | 34 | 20 | 5/6 | 25 | 113 | 16 | 23 | 10 | 16 | 8 | 21 | 3 |
| MAC-R 8 | 60 | 36 | 7/8 | 32 | 148 | 21 | 30 | 13 | 21 | 10 | 28 | 4 |
| MAC-R 10 | 94 | 56 | 9/10 | 38 | 182 | 25 | 35 | 15 | 25 | 12 | 34 | 5 |
| MAC-R 12 | 135 | 81 | 11/12 | 47 | 220 | 31 | 44 | 19 | 31 | 15 | 41 | 6 |
| MAC-R 14 | 184 | 110 | 13/14 | 51 | 254 | 35 | 48 | 21 | 36 | 15 | 47 | 7 |
| MAC-R 16 | 240 | 144 | 15/16 | 60 | 292 | 41 | 57 | 25 | 42 | 18 | 52 | 8 |
| MAC-R 18 | 304 | 182 | 17/18 | 69 | 328 | 46 | 65 | 28 | 45 | 22 | 58 | 9 |
| MAC-R 20 | 380 | 228 | 19/20 | 74 | 364 | 50 | 70 | 30 | 51 | 22 | 64 | 10 |
| MAC-R 22 | 460 | 276 | 21/22 | 81 | 399 | 55 | 76 | 33 | 56 | 25 | 69 | 11 |
| MAC-R 24 | 545 | 327 | 23/24 | 87 | 435 | 59 | 83 | 36 | 62 | 25 | 75 | 12 |
| MAC-R 26 | 640 | 384 | 25/26 | 92 | 470 | 63 | 88 | 38 | 68 | 25 | 80 | 13 |
| MAC-R 28 | 745 | 447 | 27/28 | 103 | 507 | 69 | 98 | 41 | 71 | 30 | 91 | 14 |
| MAC-R 30 | 856 | 514 | 29/30 | 109 | 545 | 75 | 104 | 45 | 79 | 30 | 98 | 15 |
| MAC-R 32 | 970 | 582 | 31/32 | 116 | 580 | 79 | 111 | 48 | 83 | 32 | 104 | 16 |
| MAC-R 34 | 1096 | 658 | 33/34 | 124 | 617 | 85 | 118 | 51 | 88 | 35 | 111 | 17 |
| MAC-R 36 | 1230 | 738 | 35/36 | 132 | 654 | 90 | 126 | 54 | 93 | 37 | 113 | 18 |
| MAC-R 38 | 1371 | 823 | 37/38 | 139 | 688 | 94 | 133 | 56 | 96 | 40 | 120 | 19 |
| MAC-R 40 | 1520 | 912 | 39/40 | 144 | 725 | 98 | 138 | 59 | 104 | 40 | 127 | 20 |
| MAC-R 42 | 1676 | 1006 | 41/42 | 154 | 766 | 106 | 148 | 64 | 111 | 42 | 134 | 21 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.
Dimensions T and S refer to the supporting structure (gusset plate) and have to be proven separately (e.g EN 1993-1-8: 2005+AC:2009).

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D34** |
| **REDAELLI Swaged Socket – Galvanized steel MAC-R** | |

## ANNEX D35

**OPEN SWAGED SOCKET ADJUSTABLE**
**X2CrNiMoN22-5-3 (1.4462 EN10088-3)** see Annex B

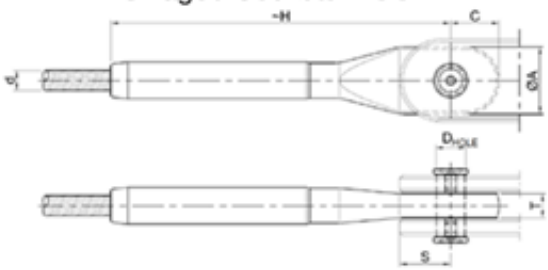
| Product Code | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | Cable Diameter $d_{min}$ /$d_{max}$ (mm) | ØA (mm) | ~H (mm) | C (mm) | E (mm) | $D_{HOLE}$ (mm) | S (mm) | T (mm) | $L_{thr'}$ (mm) | Adj +/- (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAC-R 6 | 30 | 18 | 5/6 | 26 | 114 | 18 | 24 | 11 | 17 | 8 | 18 | 3 |
| MAC-R 8 | 55 | 33 | 7/8 | 33 | 151 | 22 | 31 | 14 | 22 | 10 | 25 | 4 |
| MAC-R 10 | 85 | 51 | 9/10 | 37 | 181 | 25 | 34 | 16 | 25 | 12 | 30 | 5 |
| MAC-R 12 | 120 | 72 | 11/12 | 45 | 218 | 30 | 42 | 19 | 30 | 15 | 36 | 6 |
| MAC-R 14 | 165 | 99 | 13/14 | 49 | 251 | 33 | 46 | 21 | 35 | 15 | 43 | 7 |
| MAC-R 16 | 220 | 132 | 15/16 | 58 | 289 | 40 | 54 | 25 | 41 | 18 | 49 | 8 |
| MAC-R 18 | 280 | 168 | 17/18 | 65 | 324 | 44 | 60 | 28 | 44 | 22 | 54 | 9 |
| MAC-R 20 | 345 | 207 | 19/20 | 71 | 360 | 49 | 67 | 31 | 51 | 22 | 60 | 10 |
| MAC-R 22 | 415 | 249 | 21/22 | 78 | 395 | 54 | 73 | 34 | 55 | 25 | 66 | 11 |
| MAC-R 24 | 495 | 297 | 23/24 | 82 | 429 | 57 | 77 | 36 | 60 | 25 | 68 | 12 |
| MAC-R 26 | 585 | 351 | 25/26 | 86 | 462 | 60 | 82 | 38 | 66 | 25 | 77 | 13 |
| MAC-R 28 | 675 | 405 | 27/28 | 94 | 497 | 65 | 88 | 41 | 69 | 30 | 79 | 14 |
| MAC-R 30 | 775 | 465 | 29/30 | 100 | 533 | 69 | 95 | 44 | 75 | 30 | 84 | 15 |
| MAC-R 32 | 885 | 531 | 31/32 | 106 | 567 | 74 | 100 | 47 | 80 | 32 | 90 | 16 |
| MAC-R 34 | 1000 | 600 | 33/34 | 114 | 605 | 79 | 108 | 50 | 84 | 35 | 97 | 17 |
| MAC-R 36 | 1120 | 672 | 35/36 | 119 | 637 | 82 | 112 | 52 | 88 | 37 | 99 | 18 |
| MAC-R 38 | 1250 | 750 | 37/38 | 125 | 671 | 86 | 118 | 54 | 91 | 40 | 106 | 19 |
| MAC-R 40 | 1385 | 831 | 39/40 | 131 | 707 | 91 | 124 | 57 | 98 | 40 | 112 | 20 |
| MAC-R 42 | 1530 | 918 | 41/42 | 136 | 739 | 94 | 129 | 59 | 102 | 42 | 119 | 21 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.
Dimensions T and S refer to the supporting structure (gusset plate) and have to be proven separately (eg EN 1993-1-8: 2005+AC:2009).

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D35** |
| **REDAELLI Swaged Socket – Stainless steel MAC-R** | |

**ANNEX D36**

## Swaged Sockets MCC




**CLOSED SWAGED SOCKET - 42CrMo4 (1.7225 EN ISO 683-2:2008)** see Annex B

| Product Code | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | Cable Diameter $d_{min}$ /$d_{max}$ (mm) | ØA (mm) | ~H (mm) | C (mm) | $D_{HOLE}$ (mm) | S (mm) | T (mm) |
|---|---|---|---|---|---|---|---|---|---|
| MCC 6 | 34 | 20 | 5/6 | 23 | 102 | 17 | 10 | 16 | 8 |
| MCC 8 | 60 | 36 | 7/8 | 29 | 133 | 21 | 12 | 20 | 10 |
| MCC 10 | 94 | 56 | 9/10 | 35 | 165 | 25 | 15 | 25 | 12 |
| MCC 12 | 135 | 81 | 11/12 | 42 | 197 | 30 | 18 | 29 | 14 |
| MCC 14 | 184 | 110 | 13/14 | 46 | 227 | 33 | 20 | 35 | 16 |
| MCC 16 | 240 | 144 | 15/16 | 54 | 262 | 39 | 24 | 40 | 19 |
| MCC 18 | 304 | 182 | 17/18 | 62 | 295 | 45 | 27 | 45 | 20 |
| MCC 20 | 380 | 228 | 19/20 | 67 | 327 | 49 | 30 | 51 | 22 |
| MCC 22 | 460 | 276 | 21/22 | 72 | 356 | 52 | 32 | 54 | 26 |
| MCC 24 | 545 | 327 | 23/24 | 77 | 388 | 56 | 35 | 61 | 31 |
| MCC 26 | 640 | 384 | 25/26 | 82 | 421 | 60 | 37 | 67 | 31 |
| MCC 28 | 745 | 447 | 27/28 | 89 | 451 | 65 | 40 | 69 | 34 |
| MCC 30 | 856 | 514 | 29/30 | 95 | 484 | 69 | 42 | 75 | 36 |
| MCC 32 | 970 | 582 | 31/32 | 100 | 516 | 73 | 46 | 81 | 42 |
| MCC 34 | 1096 | 658 | 33/34 | 110 | 551 | 80 | 49 | 86 | 44 |
| MCC 36 | 1230 | 738 | 35/36 | 115 | 582 | 83 | 51 | 90 | 48 |
| MCC 38 | 1371 | 823 | 37/38 | 121 | 611 | 87 | 53 | 93 | 52 |
| MCC 40 | 1520 | 912 | 39/40 | 126 | 644 | 91 | 56 | 100 | 56 |
| MCC 42 | 1676 | 1006 | 41/42 | 132 | 676 | 95 | 58 | 104 | 60 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D36** |
| **REDAELLI Swaged Socket – Galvanized steel MCC** | |

## ANNEX D37

| CLOSED SWAGED SOCKET - S355J2 (EN10025-2) see Annex B | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Code | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | Cable Diameter $d_{min}$ /$d_{max}$ (mm) | ØA (mm) | ~H (mm) | T (mm) | C (mm) | S (mm) | $D_{HOLE}$ (mm) |
| MCC 6 | 34 | 20 | 5/6 | 25 | 104 | 18 | 10 | 16 | 12 |
| MCC 8 | 60 | 36 | 7/8 | 32 | 136 | 23 | 13 | 21 | 14 |
| MCC 10 | 94 | 56 | 9/10 | 38 | 167 | 27 | 15 | 25 | 17 |
| MCC 12 | 135 | 81 | 11/12 | 47 | 202 | 33 | 19 | 31 | 21 |
| MCC 14 | 184 | 110 | 13/14 | 51 | 233 | 36 | 21 | 36 | 24 |
| MCC 16 | 240 | 144 | 15/16 | 60 | 268 | 43 | 25 | 42 | 33 |
| MCC 18 | 304 | 182 | 17/18 | 69 | 301 | 49 | 28 | 45 | 36 |
| MCC 20 | 380 | 228 | 19/20 | 74 | 334 | 52 | 30 | 51 | 38 |
| MCC 22 | 460 | 276 | 21/22 | 81 | 366 | 57 | 33 | 56 | 42 |
| MCC 24 | 545 | 327 | 23/24 | 87 | 399 | 62 | 36 | 62 | 49 |
| MCC 26 | 640 | 384 | 25/26 | 92 | 431 | 65 | 38 | 68 | 53 |
| MCC 28 | 745 | 447 | 27/28 | 103 | 465 | 72 | 41 | 71 | 57 |
| MCC 30 | 856 | 514 | 29/30 | 109 | 500 | 77 | 45 | 79 | 62 |
| MCC 32 | 970 | 582 | 31/32 | 116 | 532 | 82 | 48 | 83 | 68 |
| MCC 34 | 1096 | 658 | 33/34 | 124 | 566 | 88 | 51 | 88 | 73 |
| MCC 36 | 1230 | 738 | 35/36 | 132 | 600 | 93 | 54 | 93 | 79 |
| MCC 38 | 1371 | 823 | 37/38 | 139 | 631 | 98 | 56 | 96 | 82 |
| MCC 40 | 1520 | 912 | 39/40 | 144 | 665 | 102 | 59 | 104 | 90 |
| MCC 42 | 1676 | 1006 | 41/42 | 154 | 703 | 109 | 64 | 111 | 97 |

(1) Please refer to note (1) in Annex D3.
(2) Please refer to note (2) in Annex D3.
Dimensions T and S refer to the supporting structure (gusset plate) and have to be proven separately (eg EN 1993-1-8: 2005+AC:2009).

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D37** |
| **REDAELLI Swaged Socket – Galvanized steel MCC** | |

## ANNEX D38

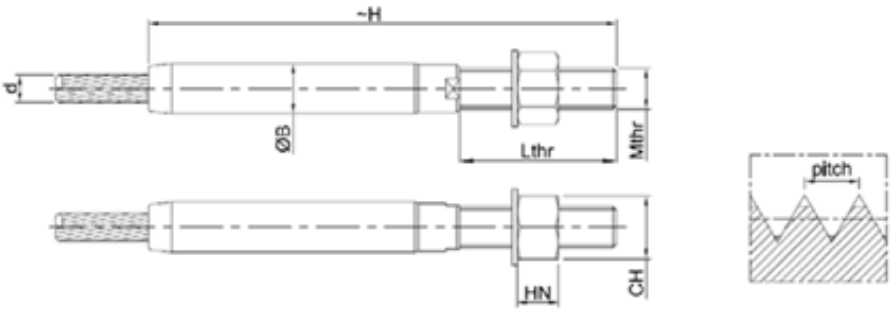
| CLOSED SWAGED SOCKET<br>X2CrNiMoN22-5-3 (1.4462 EN10088-3) see Annex B | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Product Code | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | Cable Diameter $d_{min}$ /$d_{max}$ (mm) | ØA (mm) | ~H (mm) | T (mm) | C (mm) | S (mm) | $D_{HOLE}$ (mm) |
| MCC 6 | 30 | 18 | 5/6 | 26 | 105 | 19 | 11 | 17 | 8 |
| MCC 8 | 55 | 33 | 7/8 | 33 | 139 | 24 | 14 | 22 | 10 |
| MCC 10 | 85 | 51 | 9/10 | 37 | 166 | 27 | 16 | 25 | 14 |
| MCC 12 | 120 | 72 | 11/12 | 45 | 200 | 32 | 19 | 30 | 16 |
| MCC 14 | 165 | 99 | 13/14 | 49 | 230 | 35 | 21 | 35 | 19 |
| MCC 16 | 220 | 132 | 15/16 | 58 | 265 | 42 | 25 | 41 | 22 |
| MCC 18 | 280 | 168 | 17/18 | 65 | 297 | 47 | 28 | 44 | 26 |
| MCC 20 | 345 | 207 | 19/20 | 71 | 330 | 51 | 31 | 51 | 28 |
| MCC 22 | 415 | 249 | 21/22 | 78 | 362 | 56 | 34 | 55 | 30 |
| MCC 24 | 495 | 297 | 23/24 | 82 | 393 | 59 | 36 | 60 | 38 |
| MCC 26 | 585 | 351 | 25/26 | 86 | 423 | 62 | 38 | 66 | 42 |
| MCC 28 | 675 | 405 | 27/28 | 94 | 455 | 68 | 41 | 69 | 44 |
| MCC 30 | 775 | 465 | 29/30 | 100 | 488 | 72 | 44 | 75 | 46 |
| MCC 32 | 885 | 531 | 31/32 | 106 | 519 | 77 | 47 | 80 | 52 |
| MCC 34 | 1000 | 600 | 33/34 | 114 | 554 | 82 | 50 | 84 | 54 |
| MCC 36 | 1120 | 672 | 35/36 | 119 | 583 | 86 | 52 | 88 | 56 |
| MCC 38 | 1250 | 750 | 37/38 | 125 | 614 | 90 | 54 | 91 | 56 |
| MCC 40 | 1385 | 831 | 39/40 | 131 | 647 | 94 | 57 | 98 | 58 |
| MCC 42 | 1530 | 918 | 41/42 | 136 | 676 | 98 | 59 | 102 | 62 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.
Dimensions T and S refer to the supporting structure (gusset plate) and have to be proven separately (eg EN 1993-1-8: 2005+AC:2009).

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D38** |
| **REDAELLI Swaged Socket – Stainless steel MCC** | |

## ANNEX D39

Swaged Sockets FLT




| SWAGED FITTING - 42CrMo4 (1.7225 EN ISO 683-2:2008) see Annex B | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Product Code | $N_{u,k}$ (1) (kN) | $N_{ft,d}$ (2) (kN) | Cable Diameter $d_{min}$ /$d_{max}$ (mm) | ØB (mm) | ~H (mm) | $M_{thr}$ (mm) | pitch (mm) | $L_{thr}$ (mm) | CH (mm) | HN (mm) |
| FLT 6 | 34 | 20 | 5/6 | 12 | 101 | 8 | 1.25 | 36 | 13 | 8 |
| FLT 8 | 60 | 36 | 7/8 | 15 | 137 | 12 | 1.75 | 50 | 18 | 12 |
| FLT 10 | 94 | 56 | 9/10 | 18 | 166 | 14 | 2 | 58 | 21 | 14 |
| FLT 12 | 135 | 81 | 11/12 | 23 | 197 | 16 | 2 | 67 | 24 | 16 |
| FLT 14 | 184 | 110 | 13/14 | 30 | 231 | 20 | 2.5 | 80 | 30 | 20 |
| FLT 16 | 240 | 144 | 15/16 | 30 | 266 | 24 | 3 | 93 | 36 | 24 |
| FLT 18 | 304 | 182 | 17/18 | 37 | 298 | 27 | 3 | 104 | 41 | 27 |
| FLT 20 | 380 | 228 | 19/20 | 37 | 330 | 30 | 3.5 | 114 | 46 | 30 |
| FLT 22 | 460 | 276 | 21/22 | 40 | 366 | 33 | 3.5 | 129 | 50 | 33 |
| FLT 24 | 545 | 327 | 23/24 | 47 | 399 | 36 | 3 | 140 | 55 | 36 |
| FLT 26 | 640 | 384 | 25/26 | 47 | 431 | 39 | 3 | 151 | 60 | 39 |
| FLT 28 | 745 | 447 | 27/28 | 53 | 463 | 42 | 3 | 161 | 65 | 42 |
| FLT 30 | 856 | 514 | 29/30 | 61 | 495 | 45 | 3 | 172 | 70 | 45 |
| FLT 32 | 970 | 582 | 31/32 | 61 | 526 | 48 | 3 | 181 | 75 | 48 |
| FLT 34 | 1096 | 658 | 33/34 | 67 | 561 | 52 | 3 | 194 | 80 | 52 |
| FLT 36 | 1230 | 738 | 35/36 | 67 | 587 | 52 | 3 | 199 | 80 | 52 |
| FLT 38 | 1371 | 823 | 37/38 | 74 | 621 | 56 | 4 | 211 | 85 | 56 |
| FLT 40 | 1520 | 912 | 39/40 | 74 | 654 | 60 | 4 | 223 | 90 | 60 |
| FLT 42 | 1676 | 1006 | 41/42 | 80 | 688 | 64 | 4 | 235 | 95 | 64 |

(1) Please refer to note (1) in Annex D3.
(2) Please refer to note (2) in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D39** |
| **REDAELLI Swaged Socket – Galvanized steel FLT** | |

## ANNEX D40

| SWAGED FITTING - S355J2 (EN10025-2) see Annex B | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Product Code | $N_{u,k}$ (1) (kN) | $N_{Rt,d}$ (2) (kN) | Cable Diameter $d_{min}/d_{max}$ (mm) | ØB (mm) | ~H (mm) | Mthr (mm) | pitch (mm) | Lthr (mm) | CH (mm) | HN (mm) |
| FLT 6 | 34 | 20 | 5/6 | 12 | 110 | 12 | 1.75 | 45 | 18 | 12 |
| FLT 8 | 60 | 36 | 7/8 | 15 | 144 | 16 | 2 | 57 | 24 | 16 |
| FLT 10 | 94 | 56 | 9/10 | 18 | 178 | 20 | 2.5 | 70 | 30 | 20 |
| FLT 12 | 135 | 81 | 11/12 | 23 | 213 | 24 | 3 | 83 | 36 | 24 |
| FLT 14 | 184 | 110 | 13/14 | 30 | 245 | 27 | 3 | 94 | 41 | 27 |
| FLT 16 | 240 | 144 | 15/16 | 30 | 277 | 30 | 3.5 | 104 | 46 | 30 |
| FLT 18 | 304 | 182 | 17/18 | 37 | 308 | 33 | 3.5 | 114 | 50 | 33 |
| FLT 20 | 380 | 228 | 19/20 | 37 | 341 | 36 | 3 | 125 | 55 | 36 |
| FLT 22 | 460 | 276 | 21/22 | 40 | 378 | 39 | 3 | 141 | 60 | 39 |
| FLT 24 | 545 | 327 | 23/24 | 47 | 410 | 42 | 3 | 151 | 65 | 42 |
| FLT 26 | 640 | 384 | 25/26 | 47 | 442 | 45 | 3 | 162 | 70 | 45 |
| FLT 28 | 745 | 447 | 27/28 | 53 | 481 | 52 | 3 | 179 | 80 | 52 |
| FLT 30 | 856 | 514 | 29/30 | 61 | 514 | 56 | 4 | 191 | 85 | 56 |
| FLT 32 | 970 | 582 | 31/32 | 61 | 548 | 60 | 4 | 203 | 90 | 60 |
| FLT 34 | 1096 | 658 | 33/34 | 67 | 582 | 64 | 4 | 215 | 95 | 64 |
| FLT 36 | 1230 | 738 | 35/36 | 67 | 608 | 64 | 4 | 220 | 95 | 64 |
| FLT 38 | 1371 | 823 | 37/38 | 74 | 642 | 68 | 4 | 232 | 100 | 68 |
| FLT 40 | 1520 | 912 | 39/40 | 74 | 676 | 72 | 4 | 245 | 105 | 72 |
| FLT 42 | 1676 | 1006 | 41/42 | 80 | 710 | 76 | 4 | 257 | 110 | 76 |

(1) Please refer to note (1) in Annex D3.
(2) Please refer to note (2) in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D40** |
| **REDAELLI Swaged Socket – Galvanized steel FLT** | |

## ANNEX D41

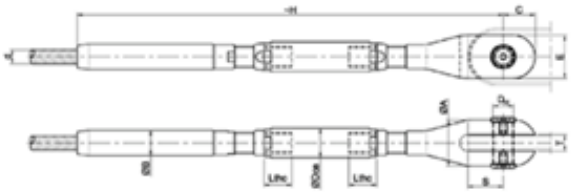
| SWAGED FITTING - X2CrNiMoN22-5-3 (1.4462 EN10088-3) see Annex B | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Product Code | $N_{u,k}$ (1) (kN) | $N_{Rd}$ (2) (kN) | Cable Diameter $d_{min}$ /$d_{max}$ (mm) | ØB (mm) | ~H (mm) | Mthr (mm) | pitch (mm) | Lthr (mm) | CH (mm) | HN (mm) |
| FLT 6 | 30 | 18 | 5/6 | 12 | 105 | 10 | 1.5 | 40 | 16 | 10 |
| FLT 8 | 55 | 33 | 7/8 | 15 | 140 | 14 | 2 | 53 | 21 | 14 |
| FLT 10 | 85 | 51 | 9/10 | 18 | 170 | 16 | 2 | 62 | 24 | 16 |
| FLT 12 | 120 | 72 | 11/12 | 23 | 205 | 20 | 2.5 | 75 | 30 | 20 |
| FLT 14 | 165 | 99 | 13/14 | 30 | 239 | 24 | 3 | 88 | 36 | 24 |
| FLT 16 | 220 | 132 | 15/16 | 30 | 272 | 27 | 3 | 99 | 41 | 27 |
| FLT 18 | 280 | 168 | 17/18 | 37 | 303 | 30 | 3.5 | 109 | 46 | 30 |
| FLT 20 | 345 | 207 | 19/20 | 37 | 335 | 33 | 3.5 | 119 | 50 | 33 |
| FLT 22 | 415 | 249 | 21/22 | 40 | 372 | 36 | 3 | 135 | 55 | 36 |
| FLT 24 | 495 | 297 | 23/24 | 47 | 399 | 36 | 3 | 140 | 55 | 36 |
| FLT 26 | 585 | 351 | 25/26 | 47 | 436 | 42 | 3 | 156 | 65 | 42 |
| FLT 28 | 675 | 405 | 27/28 | 53 | 463 | 42 | 3 | 161 | 65 | 42 |
| FLT 30 | 775 | 465 | 29/30 | 61 | 495 | 45 | 3 | 172 | 70 | 45 |
| FLT 32 | 885 | 531 | 31/32 | 61 | 526 | 48 | 3 | 181 | 75 | 48 |
| FLT 34 | 1000 | 600 | 33/34 | 67 | 561 | 52 | 3 | 194 | 80 | 52 |
| FLT 36 | 1120 | 672 | 35/36 | 67 | 587 | 52 | 3 | 199 | 80 | 52 |
| FLT 38 | 1250 | 750 | 37/38 | 74 | 621 | 56 | 4 | 211 | 85 | 56 |
| FLT 40 | 1385 | 831 | 39/40 | 74 | 654 | 60 | 4 | 223 | 90 | 60 |
| FLT 42 | 1530 | 918 | 41/42 | 80 | 688 | 64 | 4 | 235 | 95 | 64 |

(1) Please refer to note (1) in Annex D3.
(2) Please refer to note (2) in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D41** |
| **REDAELLI Swaged Socket – Stainless steel FLT** | |

## ANNEX D42

### Swaged Sockets TBC



The minimum screw in length in the threaded sleeve is ≥ 1,0 x thread-Ø on each side. Dimension H plus adjustment must not be exceeded and the threaded sleeve is screwed in symmetrically.

**TURNBUCKLE - 42CrMo4**
**(1.7225 EN ISO 683-2:2008)** see Annex B

| Product Code | $N_{u,k}$ (1) | $N_{R,d}$ (2) | Cable Diameter $d_{min}$ /$d_{max}$ | ØA | ~H | C | E | $D_{HOLE}$ | ØDce | ØB | S | T | $L_{thc}$ | Adj +/- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (kN) | (kN) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| TBC 6 | 34 | 20 | 5/6 | 23 | 202 | 15 | 21 | 10 | 13 | 13 | 16 | 8 | 10 | 20 |
| TBC 8 | 60 | 36 | 7/8 | 29 | 267 | 19 | 26 | 12 | 18 | 16 | 20 | 10 | 16 | 25 |
| TBC 10 | 94 | 56 | 9/10 | 35 | 323 | 24 | 32 | 15 | 21 | 20 | 25 | 12 | 18 | 30 |
| TBC 12 | 135 | 81 | 11/12 | 42 | 381 | 28 | 38 | 18 | 24 | 25 | 29 | 15 | 21 | 35 |
| TBC 14 | 184 | 110 | 13/14 | 46 | 443 | 31 | 43 | 20 | 29 | 32 | 35 | 15 | 26 | 40 |
| TBC 16 | 240 | 144 | 15/16 | 54 | 510 | 37 | 50 | 24 | 34 | 32 | 40 | 18 | 31 | 45 |
| TBC 18 | 304 | 182 | 17/18 | 62 | 573 | 42 | 57 | 27 | 37 | 39 | 45 | 22 | 35 | 50 |
| TBC 20 | 380 | 228 | 19/20 | 67 | 633 | 46 | 63 | 30 | 43 | 39 | 51 | 22 | 39 | 55 |
| TBC 22 | 460 | 276 | 21/22 | 72 | 705 | 49 | 67 | 32 | 46 | 43 | 54 | 25 | 43 | 65 |
| TBC 24 | 545 | 327 | 23/24 | 77 | 767 | 54 | 72 | 35 | 49 | 50 | 61 | 25 | 47 | 70 |
| TBC 26 | 640 | 384 | 25/26 | 82 | 830 | 57 | 77 | 37 | 53 | 50 | 67 | 25 | 51 | 75 |
| TBC 28 | 745 | 447 | 27/28 | 89 | 888 | 62 | 83 | 40 | 57 | 57 | 69 | 30 | 55 | 80 |
| TBC 30 | 856 | 514 | 29/30 | 95 | 951 | 66 | 89 | 42 | 60 | 64 | 75 | 30 | 59 | 85 |
| TBC 32 | 970 | 582 | 31/32 | 100 | 1009 | 70 | 94 | 46 | 64 | 64 | 81 | 32 | 62 | 90 |
| TBC 34 | 1096 | 658 | 33/34 | 110 | 1078 | 76 | 104 | 49 | 69 | 71 | 86 | 35 | 68 | 95 |
| TBC 36 | 1230 | 738 | 35/36 | 115 | 1127 | 80 | 108 | 51 | 70 | 71 | 90 | 37 | 68 | 100 |
| TBC 38 | 1371 | 823 | 37/38 | 121 | 1188 | 83 | 113 | 53 | 74 | 78 | 93 | 40 | 73 | 105 |
| TBC 40 | 1520 | 912 | 39/40 | 126 | 1253 | 87 | 119 | 56 | 79 | 78 | 100 | 40 | 78 | 110 |
| TBC 42 | 1676 | 1006 | 41/42 | 132 | 1317 | 91 | 124 | 58 | 84 | 85 | 104 | 42 | 83 | 115 |

(1) Please refer to note (1) in Annex D3.
(2) Please refer to note (2) in Annex D3.
Dimensions T and S refer to the supporting structure (gusset plate) and have to be proven separately (e g EN 1993-1-8: 2005+AC:2009).

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D42** |
| **REDAELLI Swaged Socket – Galvanized steel TBC** | |

## ANNEX D43

| TURNBUCKLE – S355J2 (EN10025-2) see Annex B | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Product Code | $N_{u,k}$ [1] | $N_{R,d}$ [2] | Cable Diameter $d_{min}$ /$d_{max}$ | ØA | ~H | C | E | $D_{HOLE}$ | ØDce | ØB | S | T | $L_{thc}$ | Adj +/- |
| | (kN) | (kN) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| TBC 6 | 34 | 20 | 5/6 | 25 | 220 | 16 | 23 | 10 | 19 | 12 | 16 | 8 | 16 | 20 |
| TBC 8 | 60 | 36 | 7/8 | 32 | 284 | 21 | 30 | 13 | 24 | 15 | 21 | 10 | 21 | 25 |
| TBC 10 | 94 | 56 | 9/10 | 38 | 347 | 25 | 35 | 15 | 29 | 18 | 25 | 12 | 26 | 30 |
| TBC 12 | 135 | 81 | 11/12 | 47 | 414 | 31 | 44 | 19 | 35 | 23 | 31 | 15 | 31 | 35 |
| TBC 14 | 184 | 110 | 13/14 | 51 | 475 | 35 | 48 | 21 | 39 | 30 | 36 | 15 | 35 | 40 |
| TBC 16 | 240 | 144 | 15/16 | 60 | 538 | 41 | 57 | 25 | 45 | 30 | 42 | 18 | 39 | 45 |
| TBC 18 | 304 | 182 | 17/18 | 69 | 599 | 46 | 65 | 28 | 50 | 37 | 45 | 22 | 43 | 50 |
| TBC 20 | 380 | 228 | 19/20 | 74 | 662 | 50 | 70 | 30 | 54 | 37 | 51 | 22 | 47 | 55 |
| TBC 22 | 460 | 276 | 21/22 | 81 | 739 | 55 | 76 | 33 | 59 | 40 | 56 | 25 | 51 | 65 |
| TBC 24 | 545 | 327 | 23/24 | 87 | 800 | 59 | 83 | 36 | 64 | 47 | 62 | 25 | 55 | 70 |
| TBC 26 | 640 | 384 | 25/26 | 92 | 862 | 63 | 88 | 38 | 69 | 47 | 68 | 25 | 59 | 75 |
| TBC 28 | 745 | 447 | 27/28 | 103 | 938 | 69 | 98 | 41 | 78 | 53 | 71 | 30 | 68 | 80 |
| TBC 30 | 856 | 514 | 29/30 | 109 | 1005 | 75 | 104 | 45 | 84 | 61 | 79 | 30 | 73 | 85 |
| TBC 32 | 970 | 582 | 31/32 | 116 | 1069 | 79 | 111 | 48 | 90 | 61 | 83 | 32 | 78 | 90 |
| TBC 34 | 1096 | 658 | 33/34 | 124 | 1135 | 85 | 118 | 51 | 96 | 67 | 88 | 35 | 83 | 95 |
| TBC 36 | 1230 | 738 | 35/36 | 132 | 1187 | 90 | 126 | 54 | 98 | 67 | 93 | 37 | 83 | 100 |
| TBC 38 | 1371 | 823 | 37/38 | 139 | 1250 | 94 | 133 | 56 | 104 | 74 | 96 | 40 | 88 | 105 |
| TBC 40 | 1520 | 912 | 39/40 | 144 | 1318 | 98 | 138 | 59 | 110 | 74 | 104 | 40 | 94 | 110 |
| TBC 42 | 1676 | 1006 | 41/42 | 154 | 1388 | 106 | 148 | 64 | 116 | 80 | 111 | 42 | 99 | 115 |

[1] Please refer to note [1] in Annex D3.

[2] Please refer to note [2] in Annex D3.

Dimensions T and S refer to the supporting structure (gusset plate) and have to be proven separately (eg EN 1993-1-8: 2005+AC:2009).

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D43** |
| **REDAELLI Swaged Socket – Galvanized steel TBC** | |

## ANNEX D44

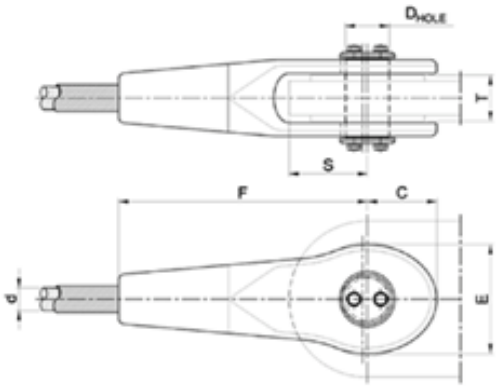
| TURNBUCKLE - X2CrNiMoN22-5-3 (1.4462 EN 10088-3) see Annex B | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Product Code | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | Cable Diameter $d_{min}$ /$d_{max}$ (mm) | ØA (mm) | ~H (mm) | C (mm) | E (mm) | $D_{HOLE}$ (mm) | ØDce (mm) | ØB (mm) | S (mm) | T (mm) | $L_{thc}$ (mm) | Adj +/- (mm) |
| TBC 6 | 30 | 18 | 5/6 | 26 | 213 | 18 | 24 | 11 | 15 | 12 | 17 | 8 | 13 | 20 |
| TBC 8 | 55 | 33 | 7/8 | 33 | 279 | 22 | 31 | 14 | 21 | 15 | 22 | 10 | 18 | 25 |
| TBC 10 | 85 | 51 | 9/10 | 37 | 332 | 25 | 34 | 16 | 24 | 18 | 25 | 12 | 21 | 30 |
| TBC 12 | 120 | 72 | 11/12 | 45 | 398 | 30 | 42 | 19 | 29 | 23 | 30 | 15 | 26 | 35 |
| TBC 14 | 165 | 99 | 13/14 | 49 | 460 | 33 | 46 | 21 | 34 | 30 | 35 | 15 | 31 | 40 |
| TBC 16 | 220 | 132 | 15/16 | 58 | 525 | 40 | 54 | 25 | 38 | 30 | 41 | 18 | 35 | 45 |
| TBC 18 | 280 | 168 | 17/18 | 65 | 585 | 44 | 60 | 28 | 43 | 37 | 44 | 22 | 39 | 50 |
| TBC 20 | 345 | 207 | 19/20 | 71 | 646 | 49 | 67 | 31 | 47 | 37 | 51 | 22 | 43 | 55 |
| TBC 22 | 415 | 249 | 21/22 | 78 | 723 | 54 | 73 | 34 | 50 | 40 | 55 | 25 | 47 | 65 |
| TBC 24 | 495 | 297 | 23/24 | 82 | 772 | 57 | 77 | 36 | 52 | 47 | 60 | 25 | 47 | 70 |
| TBC 26 | 585 | 351 | 25/26 | 86 | 842 | 60 | 82 | 38 | 59 | 47 | 66 | 25 | 55 | 75 |
| TBC 28 | 675 | 405 | 27/28 | 94 | 892 | 65 | 88 | 41 | 60 | 53 | 69 | 30 | 55 | 80 |
| TBC 30 | 775 | 465 | 29/30 | 100 | 955 | 69 | 95 | 44 | 65 | 61 | 75 | 30 | 59 | 85 |
| TBC 32 | 885 | 531 | 31/32 | 106 | 1012 | 74 | 100 | 47 | 69 | 61 | 80 | 32 | 62 | 90 |
| TBC 34 | 1000 | 600 | 33/34 | 114 | 1081 | 79 | 108 | 50 | 74 | 67 | 84 | 35 | 68 | 95 |
| TBC 36 | 1120 | 672 | 35/36 | 119 | 1128 | 82 | 112 | 52 | 75 | 67 | 88 | 37 | 68 | 100 |
| TBC 38 | 1250 | 750 | 37/38 | 125 | 1191 | 86 | 118 | 54 | 80 | 74 | 91 | 40 | 73 | 105 |
| TBC 40 | 1385 | 831 | 39/40 | 131 | 1256 | 91 | 124 | 57 | 85 | 74 | 98 | 40 | 78 | 110 |
| TBC 42 | 1530 | 918 | 41/42 | 136 | 1317 | 94 | 129 | 59 | 90 | 80 | 102 | 42 | 83 | 115 |

(1) Please refer to note (1) in Annex D3.
(2) Please refer to note (2) in Annex D3.
Dimensions T and S refer to the supporting structure (gusset plate) and have to be proven separately (eg EN 1993-1-8: 2005+AC:2009).

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D44** |
| **REDAELLI Swaged Socket – Stainless steel TBC** | |

## ANNEX D45

### Fixed fork sockets TTFH




| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | C (mm) | $D_{HOLE}$ (mm) | E (mm) | F (mm) | S max (mm) | T min (mm) | T max (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TTFH 12 | 12 | 190 | 127 | 38 | 25,5 | 60 | 139 | 50 | 16 | 22 | 1,3 |
| TTFH 16 | 16 | 320 | 213 | 48 | 32 | 78 | 177 | 60 | 24 | 30 | 2,6 |
| TTFH 20 | 20 | 490 | 327 | 60 | 39 | 94 | 216 | 75 | 30 | 37 | 4,6 |
| TTFH 24 | 24 | 700 | 467 | 72 | 46 | 112 | 258 | 85 | 38 | 45 | 7,4 |
| TTFH 28 | 28 | 970 | 647 | 84 | 54 | 132 | 294 | 100 | 50 | 56 | 12 |
| TTFH 32 | 32 | 1285 | 857 | 95 | 61 | 150 | 334 | 110 | 55 | 60 | 18 |
| TTFH 36 | 36 | 1615 | 1077 | 104 | 67 | 164 | 365 | 120 | 65 | 70 | 24 |
| TTFH 40 | 40 | 1955 | 1303 | 120 | 76 | 188 | 411 | 135 | 70 | 75 | 34 |
| TTFH 44 | 44 | 2350 | 1567 | 130 | 83 | 205 | 447 | 145 | 80 | 85 | 46 |
| TTFH 48 | 48 | 2765 | 1843 | 140 | 90 | 220 | 484 | 155 | 90 | 95 | 60 |
| TTFH 52 | 52 | 3300 | 2200 | 154 | 98 | 242 | 520 | 170 | 95 | 105 | 74 |
| TTFH 56 | 56 | 3900 | 2600 | 172 | 109 | 270 | 564 | 185 | 105 | 110 | 93 |
| TTFH 60 | 60 | 4400 | 2933 | 182 | 116 | 286 | 606 | 205 | 115 | 120 | 111 |
| TTFH 64 | 64 | 5000 | 3333 | 196 | 124 | 308 | 642 | 215 | 125 | 130 | 135 |
| TTFH 68 | 68 | 5550 | 3700 | 208 | 131 | 325 | 689 | 230 | 130 | 135 | 159 |
| TTFH 72 | 72 | 6250 | 4167 | 218 | 138 | 345 | 725 | 240 | 140 | 145 | 187 |
| TTFH 76 | 76 | 7000 | 4667 | 232 | 146 | 365 | 760 | 255 | 150 | 155 | 222 |
| TTFH 80 | 80 | 7700 | 5133 | 245 | 154 | 386 | 805 | 270 | 155 | 165 | 262 |
| TTFH 84 | 84 | 8500 | 5667 | 256 | 161 | 404 | 836 | 280 | 165 | 170 | 299 |
| TTFH 88 | 88 | 9400 | 6267 | 282 | 179 | 442 | 882 | 300 | 175 | 180 | 360 |
| TTFH 92 | 92 | 10200 | 6800 | 293 | 187 | 462 | 926 | 315 | 185 | 190 | 413 |
| TTFH 96 | 96 | 11100 | 7400 | 305 | 194 | 482 | 957 | 325 | 190 | 200 | 462 |
| TTFH 100 | 100 | 12000 | 8000 | 320 | 202 | 502 | 1005 | 345 | 195 | 205 | 525 |
| TTFH 104 | 104 | 13000 | 8667 | 332 | 210 | 522 | 1036 | 355 | 205 | 215 | 582 |
| TTFH 108 | 108 | 14000 | 9333 | 345 | 218 | 544 | 1080 | 370 | 210 | 225 | 650 |
| TTFH 112 | 112 | 15200 | 10133 | 362 | 227 | 570 | 1123 | 385 | 215 | 230 | 728 |
| TTFH 116 | 116 | 16150 | 10767 | 375 | 236 | 592 | 1159 | 400 | 225 | 240 | 809 |
| TTFH 120 | 120 | 17400 | 11600 | 388 | 243 | 612 | 1200 | 410 | 230 | 250 | 898 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D45** |
| **REDAELLI Socket for HDPE – TTFH** | |

## ANNEX D46

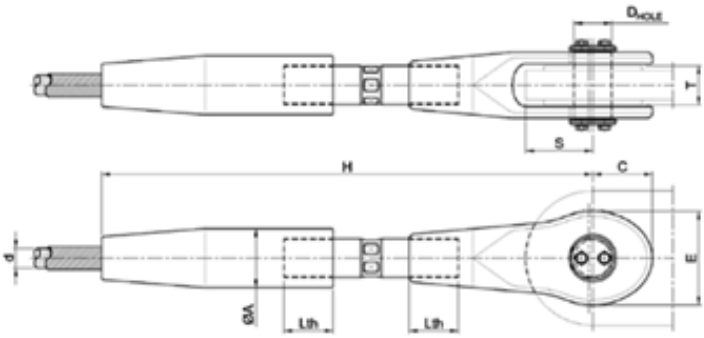
| Product Code | Cable diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{Rt,d}$ [2] (kN) | C (mm) | $D_{HOLE}$ (mm) | E (mm) | F (mm) | S max (mm) | T min (mm) | T max (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TTFH 124 | 124 | 18450 | 12300 | 400 | 252 | 632 | 1241 | 430 | 240 | 255 | 984 |
| TTFH 128 | 128 | 19800 | 13200 | 412 | 259 | 650 | 1277 | 440 | 250 | 265 | 1084 |
| TTFH 132 | 132 | 20900 | 13933 | 425 | 267 | 672 | 1308 | 450 | 255 | 270 | 1175 |
| TTFH 136 | 136 | 22200 | 14800 | 438 | 275 | 692 | 1349 | 465 | 265 | 280 | 1287 |
| TTFH 140 | 140 | 23500 | 15667 | 452 | 283 | 715 | 1385 | 475 | 270 | 290 | 1400 |
| TTFH 144 | 144 | 24850 | 16567 | 466 | 292 | 736 | 1421 | 490 | 280 | 300 | 1530 |
| TTFH 148 | 148 | 26250 | 17500 | 479 | 300 | 756 | 1457 | 500 | 290 | 310 | 1650 |
| TTFH 152 | 152 | 27700 | 18467 | 492 | 308 | 776 | 1493 | 515 | 295 | 320 | 1783 |
| TTFH 156 | 156 | 29150 | 19433 | 505 | 316 | 796 | 1529 | 525 | 300 | 330 | 1923 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.
Dimensions $T_{min}$, $T_{max}$ and S refer to the supporting structure (the gusset plate) and they have to be proven separately (e.g. EN 1993-1-8: 2005+AC:2009)

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D46** |
| **REDAELLI Socket for HDPE - TTFH** | |

## ANNEX D47

### Adjustable fork sockets TBFH




The minimum screw in length of the threaded rod is ≥ 1,0 x thread-Ø on each side. Dimension H plus adjustment must not be exceeded and the threaded rod is screwed in symmetrically.

| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | C (mm) | $D_{HOLE}$ (mm) | E (mm) | ØA (mm) | H (mm) | S max (mm) | T min (mm) | T max (mm) | Adjust. (mm) | $L_{th}$ (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TBFH 12 | 12 | 190 | 127 | 38 | 26 | 60 | 40 | 329 | 50 | 16 | 22 | ± 30 | 30 | 2 |
| TBFH 16 | 16 | 320 | 213 | 48 | 32 | 78 | 55 | 416 | 60 | 24 | 30 | ± 40 | 40 | 5 |
| TBFH 20 | 20 | 490 | 327 | 60 | 39 | 94 | 65 | 504 | 75 | 30 | 37 | ± 50 | 50 | 9 |
| TBFH 24 | 24 | 700 | 467 | 72 | 46 | 112 | 75 | 615 | 85 | 38 | 45 | ± 65 | 60 | 16 |
| TBFH 28 | 28 | 970 | 647 | 84 | 54 | 132 | 90 | 702 | 100 | 50 | 56 | ± 75 | 65 | 24 |
| TBFH 32 | 32 | 1285 | 857 | 95 | 61 | 150 | 100 | 810 | 110 | 55 | 60 | ± 90 | 75 | 36 |
| TBFH 36 | 36 | 1615 | 1077 | 104 | 67 | 164 | 110 | 904 | 120 | 65 | 70 | ± 100 | 90 | 49 |
| TBFH 40 | 40 | 1955 | 1303 | 120 | 76 | 188 | 120 | 1004 | 135 | 70 | 75 | ± 110 | 105 | 66 |
| TBFH 44 | 44 | 2350 | 1567 | 130 | 83 | 205 | 130 | 1098 | 145 | 80 | 85 | ± 120 | 115 | 88 |
| TBFH 48 | 48 | 2765 | 1843 | 140 | 90 | 220 | 145 | 1194 | 155 | 90 | 95 | ± 130 | 125 | 119 |
| TBFH 52 | 52 | 3300 | 2200 | 154 | 98 | 242 | 155 | 1289 | 170 | 95 | 105 | ± 140 | 135 | 145 |
| TBFH 56 | 56 | 3900 | 2600 | 172 | 109 | 270 | 165 | 1392 | 185 | 105 | 110 | ± 150 | 150 | 182 |
| TBFH 60 | 60 | 4400 | 2933 | 182 | 116 | 286 | 180 | 1478 | 205 | 115 | 120 | ± 160 | 160 | 224 |
| TBFH 64 | 64 | 5000 | 3333 | 196 | 124 | 308 | 190 | 1593 | 215 | 125 | 130 | ± 180 | 170 | 273 |
| TBFH 68 | 68 | 5550 | 3700 | 208 | 131 | 325 | 200 | 1714 | 230 | 130 | 135 | ± 200 | 175 | 323 |
| TBFH 72 | 72 | 6250 | 4167 | 218 | 138 | 345 | 210 | 1804 | 240 | 140 | 145 | ± 200 | 190 | 376 |
| TBFH 76 | 76 | 7000 | 4667 | 232 | 146 | 365 | 225 | 1878 | 255 | 150 | 155 | ± 200 | 200 | 447 |
| TBFH 80 | 80 | 7700 | 5133 | 245 | 154 | 386 | 235 | 1972 | 270 | 155 | 165 | ± 200 | 210 | 517 |
| TBFH 84 | 84 | 8500 | 5667 | 256 | 161 | 404 | 245 | 2047 | 280 | 165 | 170 | ± 200 | 240 | 593 |
| TBFH 88 | 88 | 9400 | 6267 | 282 | 179 | 442 | 260 | 2137 | 300 | 175 | 180 | ± 200 | 250 | 701 |
| TBFH 92 | 92 | 10200 | 6800 | 293 | 187 | 462 | 270 | 2254 | 315 | 185 | 190 | ± 200 | 260 | 800 |
| TBFH 96 | 96 | 11100 | 7400 | 305 | 194 | 482 | 280 | 2324 | 325 | 190 | 200 | ± 200 | 270 | 889 |
| TBFH 100 | 100 | 12000 | 8000 | 320 | 202 | 502 | 295 | 2406 | 345 | 195 | 205 | ± 200 | 280 | 1012 |
| TBFH 104 | 104 | 13000 | 8667 | 332 | 210 | 522 | 305 | 2476 | 355 | 205 | 215 | ± 200 | 290 | 1118 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D47** |
| **REDAELLI Socket for HDPE – TBFH** | |

## ANNEX D48

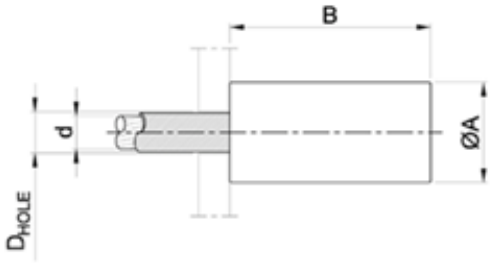
| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | C (mm | $D_{HOLE}$ (mm) | E (mm) | ØA (mm) | H (mm) | S max (mm | T min (mm | T max (mm) | Adjust. (mm) | $L_{th}$ (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TBFH 108 | 108 | 14000 | 9333 | 345 | 218 | 544 | 315 | 2554 | 370 | 210 | 225 | ± 200 | 300 | 1235 |
| TBFH 112 | 112 | 15200 | 10133 | 362 | 227 | 570 | 325 | 2626 | 385 | 215 | 230 | ± 200 | 310 | 1364 |
| TBFH 116 | 116 | 16150 | 10767 | 375 | 236 | 592 | 340 | 2691 | 400 | 225 | 240 | ± 200 | 320 | 1518 |
| TBFH 120 | 120 | 17400 | 11600 | 388 | 243 | 612 | 350 | 2761 | 410 | 230 | 250 | ± 200 | 330 | 1667 |
| TBFH 124 | 124 | 18450 | 12300 | 400 | 252 | 632 | 360 | 2856 | 430 | 240 | 255 | ± 200 | 340 | 1822 |
| TBFH 128 | 128 | 19800 | 13200 | 412 | 259 | 650 | 370 | 2931 | 440 | 250 | 265 | ± 210 | 350 | 1994 |
| TBFH 132 | 132 | 20900 | 13933 | 425 | 267 | 672 | 380 | 2990 | 450 | 255 | 270 | ± 210 | 360 | 2150 |
| TBFH 136 | 136 | 22200 | 14800 | 438 | 275 | 692 | 390 | 3058 | 465 | 265 | 280 | ± 210 | 370 | 2333 |
| TBFH 140 | 140 | 23500 | 15667 | 452 | 283 | 715 | 410 | 3135 | 475 | 270 | 290 | ± 210 | 380 | 2576 |
| TBFH 144 | 144 | 24850 | 16567 | 466 | 292 | 736 | 420 | 3198 | 490 | 280 | 300 | ± 210 | 390 | 2783 |
| TBFH 148 | 148 | 26250 | 17500 | 479 | 300 | 756 | 430 | 3251 | 500 | 290 | 310 | ± 210 | 400 | 3000 |
| TBFH 152 | 152 | 27700 | 18467 | 492 | 308 | 776 | 445 | 3319 | 515 | 295 | 320 | ± 210 | 410 | 3262 |
| TBFH 156 | 156 | 29150 | 19433 | 505 | 316 | 796 | 455 | 3387 | 525 | 300 | 330 | ± 210 | 420 | 3505 |

(1) Please refer to note (1) in Annex D3.
(2) Please refer to note (2) in Annex D3.
Dimensions $T_{min}$, $T_{max}$ and S refer to the supporting structure (the gusset plate) and they have to be proven separately (e.g. EN 1993-1-8: 2005+AC:2009)

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D48** |
| **REDAELLI Socket for HDPE – TBFH** | |

## ANNEX D49

Fix cylindrical socket CYFH




| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|
| CYFH 12 | 12 | 190 | 127 | 40 | 79 | 20 | 0,5 |
| CYFH 16 | 16 | 320 | 213 | 55 | 102 | 26 | 1,3 |
| CYFH 20 | 20 | 490 | 327 | 65 | 126 | 31 | 2,2 |
| CYFH 24 | 24 | 700 | 467 | 75 | 153 | 37 | 3,5 |
| CYFH 28 | 28 | 970 | 647 | 90 | 174 | 43 | 5,9 |
| CYFH 32 | 32 | 1285 | 857 | 100 | 199 | 48 | 8,2 |
| CYFH 36 | 36 | 1615 | 1077 | 110 | 220 | 54 | 11 |
| CYFH 40 | 40 | 1955 | 1303 | 120 | 246 | 59 | 14 |
| CYFH 44 | 44 | 2350 | 1567 | 130 | 272 | 65 | 18 |
| CYFH 48 | 48 | 2765 | 1843 | 145 | 294 | 71 | 25 |
| CYFH 52 | 52 | 3300 | 2200 | 155 | 315 | 76 | 30 |
| CYFH 56 | 56 | 3900 | 2600 | 165 | 339 | 82 | 36 |
| CYFH 60 | 60 | 4400 | 2933 | 180 | 361 | 87 | 47 |
| CYFH 64 | 64 | 5000 | 3333 | 190 | 382 | 93 | 55 |
| CYFH 68 | 68 | 5550 | 3700 | 200 | 409 | 99 | 65 |
| CYFH 72 | 72 | 6250 | 4167 | 210 | 430 | 104 | 74 |
| CYFH 76 | 76 | 7000 | 4667 | 225 | 451 | 110 | 91 |
| CYFH 80 | 80 | 7700 | 5133 | 235 | 475 | 115 | 104 |
| CYFH 84 | 84 | 8500 | 5667 | 245 | 496 | 121 | 117 |
| CYFH 88 | 88 | 9400 | 6267 | 260 | 517 | 127 | 139 |
| CYFH 92 | 92 | 10200 | 6800 | 270 | 541 | 132 | 156 |
| CYFH 96 | 96 | 11100 | 7400 | 280 | 562 | 138 | 172 |
| CYFH 100 | 100 | 12000 | 8000 | 295 | 585 | 143 | 203 |
| CYFH 104 | 104 | 13000 | 8667 | 305 | 606 | 149 | 223 |
| CYFH 108 | 108 | 14000 | 9333 | 315 | 630 | 155 | 245 |
| CYFH 112 | 112 | 15200 | 10133 | 325 | 653 | 160 | 269 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D49** |
| **REDAELLI Socket for HDPE – CYFH** | |

## ANNEX D50

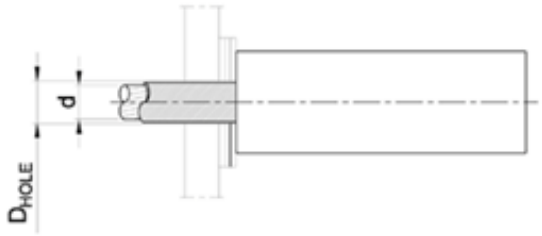
| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|
| CYFH 116 | 116 | 16150 | 10767 | 340 | 674 | 166 | 307 |
| CYFH 120 | 120 | 17400 | 11600 | 350 | 700 | 171 | 338 |
| CYFH 124 | 124 | 18450 | 12300 | 360 | 721 | 177 | 366 |
| CYFH 128 | 128 | 19800 | 13200 | 370 | 742 | 183 | 395 |
| CYFH 132 | 132 | 20900 | 13933 | 380 | 763 | 188 | 426 |
| CYFH 136 | 136 | 22200 | 14800 | 390 | 784 | 194 | 458 |
| CYFH 140 | 140 | 23500 | 15667 | 410 | 805 | 199 | 535 |
| CYFH 144 | 144 | 24850 | 16567 | 420 | 826 | 205 | 573 |
| CYFH 148 | 148 | 26250 | 17500 | 430 | 847 | 211 | 612 |
| CYFH 152 | 152 | 27700 | 18467 | 445 | 868 | 216 | 677 |
| CYFH 156 | 156 | 29150 | 19433 | 455 | 889 | 222 | 721 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D50** |
| **REDAELLI Socket for HDPE – CYFH** | |

**ANNEX D51**

Fix cylindrical socket CYSH




| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|
| CYSH 12 | 12 | 190 | 127 | 40 | 116 | 20 | 0,7 |
| CYSH 16 | 16 | 320 | 213 | 55 | 148 | 26 | 1,8 |
| CYSH 20 | 20 | 490 | 327 | 65 | 181 | 31 | 3,0 |
| CYSH 24 | 24 | 700 | 467 | 75 | 217 | 37 | 4,5 |
| CYSH 28 | 28 | 970 | 647 | 90 | 247 | 43 | 7,7 |
| CYSH 32 | 32 | 1285 | 857 | 100 | 281 | 48 | 11 |
| CYSH 36 | 36 | 1615 | 1077 | 110 | 316 | 54 | 14 |
| CYSH 40 | 40 | 1955 | 1303 | 120 | 351 | 59 | 18 |
| CYSH 44 | 44 | 2350 | 1567 | 130 | 386 | 65 | 23 |
| CYSH 48 | 48 | 2765 | 1843 | 145 | 417 | 71 | 32 |
| CYSH 52 | 52 | 3300 | 2200 | 155 | 447 | 76 | 39 |
| CYSH 56 | 56 | 3900 | 2600 | 165 | 480 | 82 | 46 |
| CYSH 60 | 60 | 4400 | 2933 | 180 | 511 | 87 | 60 |
| CYSH 64 | 64 | 5000 | 3333 | 190 | 541 | 93 | 69 |
| CYSH 68 | 68 | 5550 | 3700 | 200 | 577 | 99 | 82 |
| CYSH 72 | 72 | 6250 | 4167 | 210 | 607 | 104 | 94 |
| CYSH 76 | 76 | 7000 | 4667 | 225 | 637 | 110 | 115 |
| CYSH 80 | 80 | 7700 | 5133 | 235 | 670 | 115 | 131 |
| CYSH 84 | 84 | 8500 | 5667 | 245 | 700 | 121 | 149 |
| CYSH 88 | 88 | 9400 | 6267 | 260 | 730 | 127 | 177 |
| CYSH 92 | 92 | 10200 | 6800 | 270 | 763 | 132 | 197 |
| CYSH 96 | 96 | 11100 | 7400 | 280 | 793 | 138 | 217 |
| CYSH 100 | 100 | 12000 | 8000 | 295 | 825 | 143 | 259 |
| CYSH 104 | 104 | 13000 | 8667 | 305 | 855 | 149 | 283 |
| CYSH 108 | 108 | 14000 | 9333 | 315 | 888 | 155 | 310 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D51** |
| **REDAELLI Socket for HDPE - CYSH** | |

## ANNEX D52

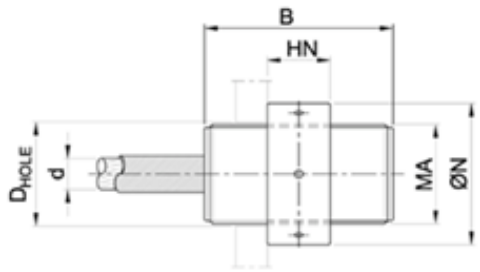
| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|
| CYSH 112 | 112 | 15200 | 10133 | 325 | 920 | 160 | 339 |
| CYSH 116 | 116 | 16150 | 10767 | 340 | 950 | 166 | 387 |
| CYSH 120 | 120 | 17400 | 11600 | 350 | 985 | 171 | 428 |
| CYSH 124 | 124 | 18450 | 12300 | 360 | 1015 | 177 | 462 |
| CYSH 128 | 128 | 19800 | 13200 | 370 | 1045 | 183 | 497 |
| CYSH 132 | 132 | 20900 | 13933 | 380 | 1075 | 188 | 534 |
| CYSH 136 | 136 | 22200 | 14800 | 390 | 1105 | 194 | 578 |
| CYSH 140 | 140 | 23500 | 15667 | 410 | 1135 | 199 | 679 |
| CYSH 144 | 144 | 24850 | 16567 | 420 | 1165 | 205 | 724 |
| CYSH 148 | 148 | 26250 | 17500 | 430 | 1195 | 211 | 778 |
| CYSH 152 | 152 | 27700 | 18467 | 445 | 1225 | 216 | 862 |
| CYSH 156 | 156 | 29150 | 19433 | 455 | 1255 | 222 | 915 |

(1) Please refer to note (1) in Annex D3.
(2) Please refer to note (2) in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D52** |
| **REDAELLI Socket for HDPE – CYSH** | |

**ANNEX D53**

Adjustable cylindrical socket CYTH




| Product Code | Cable Diameter $d_{max}$ | $N_{u,k}$ (1) | $N_{R,d}$ (2) | MA | B | $D_{HOLE}$ | ØN | HN | ADJUST. | Mass |
|---|---|---|---|---|---|---|---|---|---|---|
| | (mm) | (kN) | (kN) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (kg) |
| CYTH 12 | 12 | 190 | 127 | 45 | 79 | 48 | 65 | 25 | ± 24 | 1,0 |
| CYTH 16 | 16 | 320 | 213 | 55 | 102 | 59 | 80 | 35 | ± 31 | 1,8 |
| CYTH 20 | 20 | 490 | 327 | 70 | 126 | 75 | 100 | 40 | ± 40 | 3,7 |
| CYTH 24 | 24 | 700 | 467 | 80 | 153 | 85 | 115 | 50 | ± 48 | 6,0 |
| CYTH 28 | 28 | 970 | 647 | 90 | 174 | 95 | 130 | 60 | ± 54 | 8,7 |
| CYTH 32 | 32 | 1285 | 857 | 105 | 199 | 110 | 150 | 65 | ± 64 | 13 |
| CYTH 36 | 36 | 1615 | 1077 | 115 | 220 | 120 | 165 | 75 | ± 68 | 18 |
| CYTH 40 | 40 | 1955 | 1303 | 130 | 246 | 135 | 185 | 80 | ± 79 | 25 |
| CYTH 44 | 44 | 2350 | 1567 | 140 | 272 | 145 | 200 | 90 | ± 87 | 32 |
| CYTH 48 | 48 | 2765 | 1843 | 150 | 294 | 155 | 210 | 100 | ± 93 | 39 |
| CYTH 52 | 52 | 3300 | 2200 | 165 | 315 | 170 | 235 | 105 | ± 101 | 52 |
| CYTH 56 | 56 | 3900 | 2600 | 175 | 339 | 180 | 245 | 115 | ± 108 | 61 |
| CYTH 60 | 60 | 4400 | 2933 | 190 | 361 | 195 | 270 | 120 | ± 115 | 78 |
| CYTH 64 | 64 | 5000 | 3333 | 200 | 382 | 208 | 280 | 130 | ± 120 | 89 |
| CYTH 68 | 68 | 5550 | 3700 | 210 | 409 | 218 | 295 | 140 | ± 129 | 106 |
| CYTH 72 | 72 | 6250 | 4167 | 225 | 430 | 233 | 315 | 145 | ± 137 | 128 |
| CYTH 76 | 76 | 7000 | 4667 | 235 | 451 | 245 | 330 | 155 | ± 140 | 145 |
| CYTH 80 | 80 | 7700 | 5133 | 250 | 475 | 260 | 350 | 160 | ± 149 | 174 |
| CYTH 84 | 84 | 8500 | 5667 | 260 | 496 | 270 | 365 | 170 | ± 155 | 197 |
| CYTH 88 | 88 | 9400 | 6267 | 270 | 517 | 280 | 380 | 180 | ± 160 | 222 |
| CYTH 92 | 92 | 10200 | 6800 | 285 | 541 | 297 | 400 | 185 | ± 168 | 256 |
| CYTH 96 | 96 | 11100 | 7400 | 295 | 562 | 307 | 420 | 195 | ± 174 | 291 |
| CYTH 100 | 100 | 12000 | 8000 | 310 | 585 | 322 | 435 | 200 | ± 183 | 330 |
| CYTH 104 | 104 | 13000 | 8667 | 320 | 606 | 332 | 450 | 210 | ± 188 | 366 |
| CYTH 108 | 108 | 14000 | 9333 | 335 | 630 | 347 | 470 | 220 | ± 193 | 414 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D53** |
| **REDAELLI Socket for HDPE – CYTH** | |

## ANNEX D54

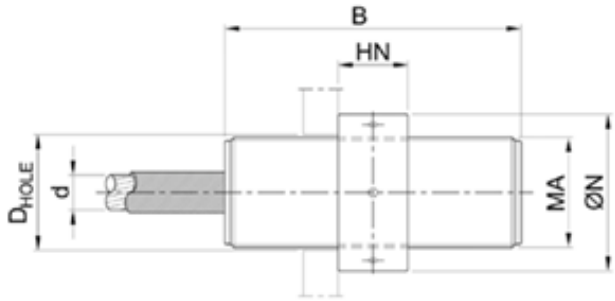
| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | MA (mm) | B (mm) | $D_{HOLE}$ (mm) | ØN (mm) | HN (mm) | ADJUST. (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| CYTH 112 | 112 | 15200 | 10133 | 350 | 653 | 365 | 490 | 225 | ± 202 | 469 |
| CYTH 116 | 116 | 16150 | 10767 | 360 | 674 | 375 | 510 | 235 | ± 207 | 521 |
| CYTH 120 | 120 | 17400 | 11600 | 370 | 700 | 385 | 520 | 240 | ± 218 | 562 |
| CYTH 124 | 124 | 18450 | 12300 | 385 | 721 | 405 | 540 | 250 | ± 224 | 624 |
| CYTH 128 | 128 | 19800 | 13200 | 395 | 742 | 415 | 560 | 260 | ± 229 | 686 |
| CYTH 132 | 132 | 20900 | 13933 | 410 | 763 | 430 | 580 | 265 | ± 237 | 760 |
| CYTH 136 | 136 | 22200 | 14800 | 420 | 784 | 440 | 590 | 275 | ± 243 | 806 |
| CYTH 140 | 140 | 23500 | 15667 | 435 | 805 | 460 | 610 | 280 | ± 251 | 890 |
| CYTH 144 | 144 | 24850 | 16567 | 445 | 826 | 470 | 630 | 290 | ± 256 | 969 |
| CYTH 148 | 148 | 26250 | 17500 | 455 | 847 | 480 | 640 | 300 | ± 262 | 1030 |
| CYTH 152 | 152 | 27700 | 18467 | 470 | 868 | 500 | 660 | 305 | ± 270 | 1126 |
| CYTH 156 | 156 | 29150 | 19433 | 485 | 889 | 515 | 680 | 315 | ± 275 | 1235 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D54** |
| **REDAELLI Socket for HDPE – CYTH** | |

**ANNEX D55**

Adjustable cylindrical socket CYNH




| Product Code | Cable Diameter $d_{max}$ | $N_{u,k}$ (1) | $N_{R,d}$ (2) | MA | B | $D_{HOLE}$ | ØN | HN | ADJUST. | Mass |
|---|---|---|---|---|---|---|---|---|---|---|
| | (mm) | (kN) | (kN) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (kg) |
| CYNH 12 | 12 | 190 | 127 | 45 | 116 | 48 | 65 | 25 | ± 43 | 1,2 |
| CYNH 16 | 16 | 320 | 213 | 55 | 148 | 59 | 80 | 35 | ± 54 | 2,2 |
| CYNH 20 | 20 | 490 | 327 | 70 | 181 | 75 | 100 | 40 | ± 68 | 4,5 |
| CYNH 24 | 24 | 700 | 467 | 80 | 217 | 85 | 115 | 50 | ± 81 | 7,0 |
| CYNH 28 | 28 | 970 | 647 | 90 | 247 | 95 | 130 | 60 | ± 91 | 10 |
| CYNH 32 | 32 | 1285 | 857 | 105 | 281 | 110 | 150 | 65 | ± 105 | 16 |
| CYNH 36 | 36 | 1615 | 1077 | 115 | 316 | 120 | 165 | 75 | ± 117 | 21 |
| CYNH 40 | 40 | 1955 | 1303 | 130 | 351 | 135 | 185 | 80 | ± 132 | 30 |
| CYNH 44 | 44 | 2350 | 1567 | 140 | 386 | 145 | 200 | 90 | ± 144 | 38 |
| CYNH 48 | 48 | 2765 | 1843 | 150 | 417 | 155 | 210 | 100 | ± 155 | 45 |
| CYNH 52 | 52 | 3300 | 2200 | 165 | 447 | 170 | 235 | 105 | ± 167 | 62 |
| CYNH 56 | 56 | 3900 | 2600 | 175 | 480 | 180 | 245 | 115 | ± 179 | 72 |
| CYNH 60 | 60 | 4400 | 2933 | 190 | 511 | 195 | 270 | 120 | ± 190 | 92 |
| CYNH 64 | 64 | 5000 | 3333 | 200 | 541 | 208 | 280 | 130 | ± 200 | 105 |
| CYNH 68 | 68 | 5550 | 3700 | 210 | 577 | 218 | 295 | 140 | ± 213 | 125 |
| CYNH 72 | 72 | 6250 | 4167 | 225 | 607 | 233 | 315 | 145 | ± 225 | 152 |
| CYNH 76 | 76 | 7000 | 4667 | 235 | 637 | 245 | 330 | 155 | ± 233 | 170 |
| CYNH 80 | 80 | 7700 | 5133 | 250 | 670 | 260 | 350 | 160 | ± 247 | 204 |
| CYNH 84 | 84 | 8500 | 5667 | 260 | 700 | 270 | 365 | 170 | ± 257 | 233 |
| CYNH 88 | 88 | 9400 | 6267 | 270 | 730 | 280 | 380 | 180 | ± 267 | 262 |
| CYNH 92 | 92 | 10200 | 6800 | 285 | 763 | 297 | 400 | 185 | ± 279 | 301 |
| CYNH 96 | 96 | 11100 | 7400 | 295 | 793 | 307 | 420 | 195 | ± 289 | 340 |
| CYNH 100 | 100 | 12000 | 8000 | 310 | 825 | 322 | 435 | 200 | ± 303 | 391 |
| CYNH 104 | 104 | 13000 | 8667 | 320 | 855 | 332 | 450 | 210 | ± 313 | 431 |
| CYNH 108 | 108 | 14000 | 9333 | 335 | 888 | 347 | 470 | 220 | ± 322 | 486 |
| CYNH 112 | 112 | 15200 | 10133 | 350 | 920 | 365 | 490 | 225 | ± 336 | 551 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D55** |
| **REDAELLI Socket for HDPE – CYNH** | |

## ANNEX D56

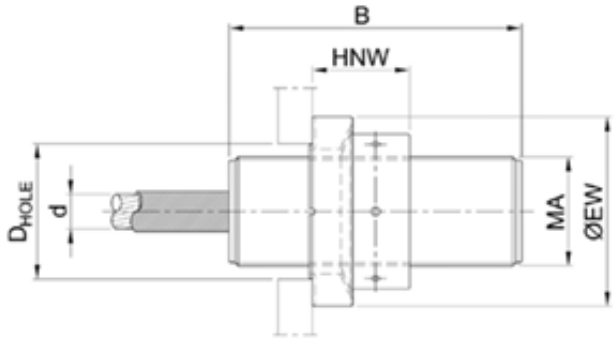
| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | MA (mm) | B (mm) | $D_{HOLE}$ (mm) | ØN (mm) | HN (mm) | ADJUST. (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| CYNH 116 | 116 | 16150 | 10767 | 360 | 950 | 375 | 510 | 235 | ± 346 | 609 |
| CYNH 120 | 120 | 17400 | 11600 | 370 | 985 | 385 | 520 | 240 | ± 361 | 661 |
| CYNH 124 | 124 | 18450 | 12300 | 385 | 1015 | 405 | 540 | 250 | ± 371 | 732 |
| CYNH 128 | 128 | 19800 | 13200 | 395 | 1045 | 415 | 560 | 260 | ± 381 | 802 |
| CYNH 132 | 132 | 20900 | 13933 | 410 | 1075 | 430 | 580 | 265 | ± 393 | 890 |
| CYNH 136 | 136 | 22200 | 14800 | 420 | 1105 | 440 | 590 | 275 | ± 403 | 946 |
| CYNH 140 | 140 | 23500 | 15667 | 435 | 1135 | 460 | 610 | 280 | ± 416 | 1047 |
| CYNH 144 | 144 | 24850 | 16567 | 445 | 1165 | 470 | 630 | 290 | ± 426 | 1135 |
| CYNH 148 | 148 | 26250 | 17500 | 455 | 1195 | 480 | 640 | 300 | ± 436 | 1205 |
| CYNH 152 | 152 | 27700 | 18467 | 470 | 1225 | 500 | 660 | 305 | ± 448 | 1326 |
| CYNH 156 | 156 | 29150 | 19433 | 485 | 1255 | 515 | 680 | 315 | ± 457 | 1456 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D56** |
| **REDAELLI Socket for HDPE – CYNH** | |

**ANNEX D57**

Adjustable cylindrical socket with spherical washer CYWH




| Product Code | Cable Diameter $d_{max}$ | $N_{u,k}$ (1) | $N_{R,d}$ (2) | MA | B | $D_{HOLE}$ | HNW | ØEW | ADJUST. | Mass |
|---|---|---|---|---|---|---|---|---|---|---|
| | (mm) | (kN) | (kN) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (kg) |
| CYWH 12 | 12 | 190 | 127 | 45 | 116 | 57 | 36 | 80 | ± 42 | 1,6 |
| CYWH 16 | 16 | 320 | 213 | 55 | 148 | 68 | 47 | 100 | ± 53 | 3,0 |
| CYWH 20 | 20 | 490 | 327 | 70 | 181 | 86 | 59 | 120 | ± 66 | 5,9 |
| CYWH 24 | 24 | 700 | 467 | 80 | 217 | 99 | 72 | 140 | ± 79 | 9,3 |
| CYWH 28 | 28 | 970 | 647 | 90 | 247 | 111 | 86 | 160 | ± 89 | 14 |
| CYWH 32 | 32 | 1285 | 857 | 105 | 281 | 130 | 95 | 180 | ± 103 | 21 |
| CYWH 36 | 36 | 1615 | 1077 | 115 | 316 | 143 | 107 | 200 | ± 115 | 27 |
| CYWH 40 | 40 | 1955 | 1303 | 130 | 351 | 161 | 116 | 230 | ± 129 | 40 |
| CYWH 44 | 44 | 2350 | 1567 | 140 | 386 | 174 | 125 | 240 | ± 142 | 48 |
| CYWH 48 | 48 | 2765 | 1843 | 150 | 417 | 186 | 140 | 260 | ± 152 | 58 |
| CYWH 52 | 52 | 3300 | 2200 | 165 | 447 | 205 | 147 | 290 | ± 164 | 80 |
| CYWH 56 | 56 | 3900 | 2600 | 175 | 480 | 217 | 163 | 300 | ± 176 | 92 |
| CYWH 60 | 60 | 4400 | 2933 | 190 | 511 | 236 | 170 | 330 | ± 186 | 119 |
| CYWH 64 | 64 | 5000 | 3333 | 200 | 541 | 248 | 181 | 340 | ± 196 | 133 |
| CYWH 68 | 68 | 5550 | 3700 | 210 | 577 | 261 | 195 | 360 | ± 209 | 158 |
| CYWH 72 | 72 | 6250 | 4167 | 225 | 607 | 279 | 203 | 380 | ± 221 | 190 |
| CYWH 76 | 76 | 7000 | 4667 | 235 | 637 | 292 | 222 | 400 | ± 229 | 219 |
| CYWH 80 | 80 | 7700 | 5133 | 250 | 670 | 310 | 226 | 410 | ± 243 | 253 |
| CYWH 84 | 84 | 8500 | 5667 | 260 | 700 | 323 | 235 | 420 | ± 253 | 282 |
| CYWH 88 | 88 | 9400 | 6267 | 270 | 730 | 336 | 254 | 440 | ± 262 | 322 |
| CYWH 92 | 92 | 10200 | 6800 | 285 | 763 | 354 | 268 | 460 | ± 274 | 373 |
| CYWH 96 | 96 | 11100 | 7400 | 295 | 793 | 367 | 275 | 490 | ± 284 | 426 |
| CYWH 100 | 100 | 12000 | 8000 | 310 | 825 | 385 | 290 | 510 | ± 297 | 490 |
| CYWH 104 | 104 | 13000 | 8667 | 320 | 855 | 398 | 299 | 520 | ± 307 | 532 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D57** |
| **REDAELLI Socket for HDPE – CYWH** | |

## ANNEX D58

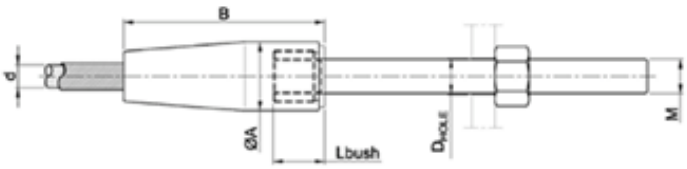
| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | MA (mm) | B (mm) | $D_{HOLE}$ (mm) | HNW (mm) | ØEW (mm) | ADJUST. (mm) | Mass (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| CYWH 108 | 108 | 14000 | 9333 | 335 | 888 | 415 | 318 | 550 | ± 316 | 611 |
| CYWH 112 | 112 | 15200 | 10133 | 350 | 920 | 434 | 322 | 570 | ± 330 | 684 |
| CYWH 116 | 116 | 16150 | 10767 | 360 | 950 | 446 | 329 | 580 | ± 340 | 753 |
| CYWH 120 | 120 | 17400 | 11600 | 370 | 985 | 460 | 334 | 590 | ± 354 | 787 |
| CYWH 124 | 124 | 18450 | 12300 | 385 | 1015 | 477 | 353 | 600 | ± 364 | 876 |
| CYWH 128 | 128 | 19800 | 13200 | 395 | 1045 | 490 | 361 | 620 | ± 374 | 958 |
| CYWH 132 | 132 | 20900 | 13933 | 410 | 1075 | 508 | 365 | 640 | ± 386 | 1055 |
| CYWH 136 | 136 | 22200 | 14800 | 420 | 1105 | 521 | 395 | 650 | ± 396 | 1135 |
| CYWH 140 | 140 | 23500 | 15667 | 435 | 1135 | 539 | 398 | 680 | ± 408 | 1260 |
| CYWH 144 | 144 | 24850 | 16567 | 445 | 1165 | 552 | 406 | 700 | ± 418 | 1364 |
| CYWH 148 | 148 | 26250 | 17500 | 455 | 1195 | 565 | 421 | 710 | ± 428 | 1444 |
| CYWH 152 | 152 | 27700 | 18467 | 470 | 1225 | 583 | 425 | 730 | ± 440 | 1576 |
| CYWH 156 | 156 | 29150 | 19433 | 485 | 1255 | 601 | 439 | 750 | ± 449 | 1725 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D58** |
| **REDAELLI Socket for HDPE – CYWH** | |

**ANNEX D59**

## Adjustable cylindrical socket CYBH




The minimum screw in length of the threaded rod is $L_{bush}$ (fully screwed in) and must be respected.

| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | M (mm) | $L_{bush}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|
| CYBH 12 | 12 | 160 | 107 | 40 | 123 | 21,5 | 20 x 2,5 | 38 | 0,6 |
| CYBH 16 | 16 | 280 | 187 | 55 | 158 | 26 | 24 x 3 | 48 | 1,5 |
| CYBH 20 | 20 | 440 | 293 | 65 | 191 | 32 | 30 x 3,5 | 55 | 2,6 |
| CYBH 24 | 24 | 620 | 413 | 75 | 227 | 38 | 36 x 3 | 62 | 4,0 |
| CYBH 28 | 28 | 850 | 567 | 90 | 257 | 45 | 42 x 3 | 69 | 6,6 |
| CYBH 32 | 32 | 1150 | 767 | 100 | 291 | 51 | 48 x 3 | 76 | 9,1 |
| CYBH 36 | 36 | 1400 | 933 | 110 | 326 | 55 | 52 x 3 | 88 | 13 |
| CYBH 40 | 40 | 1750 | 1167 | 120 | 361 | 63 | 60 x 4 | 95 | 16 |
| CYBH 44 | 44 | 2100 | 1400 | 130 | 401 | 67 | 64 x 4 | 107 | 21 |
| CYBH 48 | 48 | 2500 | 1667 | 145 | 432 | 75 | 72 x 4 | 114 | 29 |
| CYBH 52 | 52 | 2950 | 1967 | 155 | 462 | 84 | 80 x 6 | 121 | 35 |
| CYBH 56 | 56 | 3400 | 2267 | 165 | 495 | 89 | 85 x 6 | 128 | 42 |
| CYBH 60 | 60 | 3900 | 2600 | 180 | 526 | 94 | 90 x 6 | 135 | 54 |
| CYBH 64 | 64 | 4500 | 3000 | 190 | 556 | 99 | 95 x 6 | 142 | 64 |
| CYBH 68 | 68 | 5000 | 3333 | 200 | 592 | 109 | 105 x 6 | 149 | 74 |
| CYBH 72 | 72 | 5600 | 3733 | 210 | 627 | 114 | 110 x 6 | 161 | 86 |
| CYBH 76 | 76 | 6300 | 4200 | 225 | 657 | 124 | 120 x 6 | 168 | 103 |
| CYBH 80 | 80 | 7000 | 4667 | 235 | 690 | 130 | 125 x 6 | 175 | 119 |
| CYBH 84 | 84 | 7700 | 5133 | 245 | 720 | 135 | 130 x 6 | 182 | 135 |
| CYBH 88 | 88 | 8500 | 5667 | 260 | 750 | 140 | 135 x 6 | 189 | 160 |
| CYBH 92 | 92 | 9300 | 6200 | 270 | 783 | 145 | 140 x 6 | 196 | 179 |
| CYBH 96 | 96 | 10100 | 6733 | 280 | 813 | 150 | 145 x 6 | 203 | 200 |
| CYBH 100 | 100 | 10900 | 7267 | 295 | 845 | 160 | 155 x 6 | 210 | 231 |
| CYBH 104 | 104 | 11800 | 7867 | 305 | 875 | 165 | 160 x 6 | 217 | 256 |
| CYBH 108 | 108 | 12700 | 8467 | 315 | 908 | 170 | 165 x 8 | 224 | 283 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D59** |
| **REDAELLI Socket for HDPE – CYBH** | |

## ANNEX D60

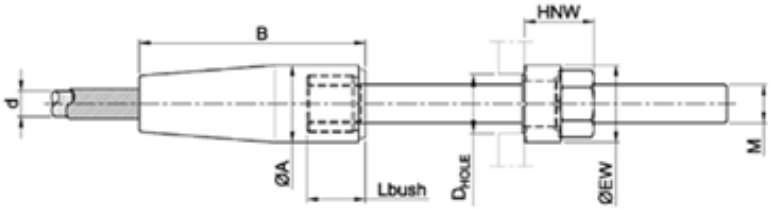
| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | M (mm) | $L_{bush}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|
| CYBH 112 | 112 | 13900 | 9267 | 325 | 940 | 180 | 175 x 8 | 231 | 309 |
| CYBH 116 | 116 | 14900 | 9933 | 340 | 970 | 185 | 180 x 8 | 238 | 351 |
| CYBH 120 | 120 | 15900 | 10600 | 350 | 1005 | 190 | 185 x 8 | 245 | 387 |
| CYBH 124 | 124 | 17000 | 11333 | 360 | 1035 | 195 | 190 x 8 | 252 | 422 |
| CYBH 128 | 128 | 18100 | 12067 | 370 | 1065 | 215 | 210 x 8 | 259 | 448 |
| CYBH 132 | 132 | 19200 | 12800 | 380 | 1095 | 225 | 220 x 10 | 266 | 481 |
| CYBH 136 | 136 | 20400 | 13600 | 390 | 1125 | 235 | 230 x 10 | 273 | 517 |
| CYBH 140 | 140 | 21600 | 14400 | 410 | 1155 | 235 | 230 x 10 | 280 | 602 |
| CYBH 144 | 144 | 22900 | 15267 | 420 | 1185 | 245 | 240 x 10 | 287 | 645 |
| CYBH 148 | 148 | 24300 | 16200 | 425 | 1215 | 250 | 245 x 10 | 289 | 667 |
| CYBH 152 | 152 | 25600 | 17067 | 435 | 1245 | 255 | 250 x 10 | 296 | 716 |
| CYBH 156 | 156 | 26900 | 17933 | 445 | 1275 | 260 | 255 x 10 | 303 | 767 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D60** |
| **REDAELLI Socket for HDPE – CYBH** | |

## ANNEX D61

### Adjustable cylindrical socket with spherical washer CYRH




The minimum screw in length of the threaded rod is $L_{bush}$ (fully screwed in) and must be respected.

| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | ØEW (mm) | HNW (mm) | M (mm) | $L_{bush}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CYRH 12 | 12 | 160 | 107 | 40 | 123 | 31 | 40 | 39 | 20 x 2,5 | 38 | 0,7 |
| CYRH 16 | 16 | 280 | 187 | 55 | 158 | 38 | 50 | 48 | 24 x 3 | 48 | 1,8 |
| CYRH 20 | 20 | 440 | 293 | 65 | 191 | 46 | 60 | 53 | 30 x 3,5 | 55 | 2,9 |
| CYRH 24 | 24 | 620 | 413 | 75 | 227 | 55 | 80 | 63 | 36 x 3 | 62 | 4,9 |
| CYRH 28 | 28 | 850 | 567 | 90 | 257 | 65 | 90 | 78 | 42 x 3 | 69 | 8,1 |
| CYRH 32 | 32 | 1150 | 767 | 100 | 291 | 74 | 100 | 88 | 48 x 3 | 76 | 11 |
| CYRH 36 | 36 | 1400 | 933 | 110 | 326 | 81 | 110 | 95 | 52 x 3 | 88 | 15 |
| CYRH 40 | 40 | 1750 | 1167 | 120 | 361 | 92 | 120 | 108 | 60 x 4 | 95 | 20 |
| CYRH 44 | 44 | 2100 | 1400 | 130 | 401 | 99 | 130 | 117 | 64 x 4 | 107 | 26 |
| CYRH 48 | 48 | 2500 | 1667 | 145 | 432 | 111 | 150 | 128 | 72 x 4 | 114 | 35 |
| CYRH 52 | 52 | 2950 | 1967 | 155 | 462 | 122 | 170 | 141 | 80 x 6 | 121 | 43 |
| CYRH 56 | 56 | 3400 | 2267 | 165 | 495 | 130 | 170 | 156 | 85 x 6 | 128 | 51 |
| CYRH 60 | 60 | 3900 | 2600 | 180 | 526 | 138 | 180 | 163 | 90 x 6 | 135 | 65 |
| CYRH 64 | 64 | 4500 | 3000 | 190 | 556 | 146 | 190 | 177 | 95 x 6 | 142 | 78 |
| CYRH 68 | 68 | 5000 | 3333 | 200 | 592 | 160 | 210 | 186 | 105 x 6 | 149 | 91 |
| CYRH 72 | 72 | 5600 | 3733 | 210 | 627 | 168 | 220 | 202 | 110 x 6 | 161 | 106 |
| CYRH 76 | 76 | 6300 | 4200 | 225 | 657 | 181 | 240 | 210 | 120 x 6 | 168 | 128 |
| CYRH 80 | 80 | 7000 | 4667 | 235 | 690 | 189 | 250 | 224 | 125 x 6 | 175 | 148 |
| CYRH 84 | 84 | 7700 | 5133 | 245 | 720 | 197 | 260 | 229 | 130 x 6 | 182 | 167 |
| CYRH 88 | 88 | 8500 | 5667 | 260 | 750 | 206 | 270 | 242 | 135 x 6 | 189 | 197 |
| CYRH 92 | 92 | 9300 | 6200 | 270 | 783 | 213 | 280 | 247 | 140 x 6 | 196 | 219 |
| CYRH 96 | 96 | 10100 | 6733 | 280 | 813 | 222 | 290 | 261 | 145 x 6 | 203 | 246 |
| CYRH 100 | 100 | 10900 | 7267 | 295 | 845 | 235 | 310 | 270 | 155 x 6 | 210 | 284 |
| CYRH 104 | 104 | 11800 | 7867 | 305 | 875 | 243 | 320 | 285 | 160 x 6 | 217 | 317 |
| CYRH 108 | 108 | 12700 | 8467 | 315 | 908 | 251 | 330 | 298 | 165 x 8 | 224 | 352 |
| CYRH 112 | 112 | 13900 | 9267 | 325 | 940 | 265 | 350 | 307 | 175 x 8 | 231 | 386 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D61** |
| **REDAELLI Socket for HDPE – CYRH** | |

## ANNEX D62

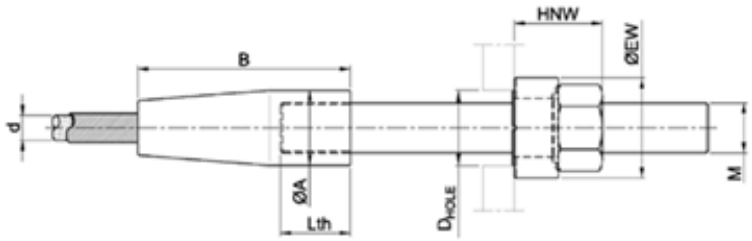
| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | ØEW (mm) | HNW (mm) | M (mm) | $L_{bush}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CYRH 116 | 116 | 14900 | 9933 | 340 | 970 | 273 | 360 | 323 | 180 x 8 | 238 | 438 |
| CYRH 120 | 120 | 15900 | 10600 | 350 | 1005 | 281 | 370 | 327 | 185 x 8 | 245 | 478 |
| CYRH 124 | 124 | 17000 | 11333 | 360 | 1035 | 289 | 380 | 342 | 190 x 8 | 252 | 524 |
| CYRH 128 | 128 | 18100 | 12067 | 370 | 1065 | 314 | 410 | 358 | 210 x 8 | 259 | 565 |
| CYRH 132 | 132 | 19200 | 12800 | 380 | 1095 | 327 | 430 | 367 | 220 x 10 | 266 | 611 |
| CYRH 136 | 136 | 20400 | 13600 | 390 | 1125 | 340 | 450 | 376 | 230 x 10 | 273 | 660 |
| CYRH 140 | 140 | 21600 | 14400 | 410 | 1155 | 343 | 450 | 386 | 230 x 10 | 280 | 752 |
| CYRH 144 | 144 | 22900 | 15267 | 420 | 1185 | 356 | 470 | 395 | 240 x 10 | 287 | 809 |
| CYRH 148 | 148 | 24300 | 16200 | 425 | 1215 | 364 | 480 | 409 | 245 x 10 | 289 | 848 |
| CYRH 152 | 152 | 25600 | 17067 | 435 | 1245 | 372 | 490 | 414 | 250 x 10 | 296 | 904 |
| CYRH 156 | 156 | 26900 | 17933 | 445 | 1275 | 380 | 500 | 429 | 255 x 10 | 303 | 973 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D62** |
| **REDAELLI Socket for HDPE – CYRH** | |

## ANNEX D63

### Adjustable cylindrical socket with spherical washer CYVH




The minimum screw in length of the threaded rod is $L_{th}$ (fully screwed in) and must be respected.

| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$(1) (kN) | $N_{R,d}$(2) (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | ØEW (mm) | HNW (mm) | M (mm) | $L_{th}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CYVH 12 | 12 | 190 | 127 | 40 | 115 | 38 | 60 | 45 | 27 x 3 | 30 | 0,8 |
| CYVH 16 | 16 | 320 | 213 | 55 | 150 | 51 | 80 | 58 | 36 x 3 | 40 | 2,0 |
| CYVH 20 | 20 | 490 | 327 | 65 | 189 | 60 | 90 | 63 | 42 x 3 | 50 | 3,3 |
| CYVH 24 | 24 | 700 | 467 | 75 | 228 | 78 | 120 | 81 | 50 x 3 | 60 | 5,8 |
| CYVH 28 | 28 | 970 | 647 | 90 | 256 | 80 | 120 | 91 | 56 x 4 | 65 | 8,7 |
| CYVH 32 | 32 | 1285 | 857 | 100 | 295 | 92 | 130 | 104 | 64 x 4 | 75 | 12 |
| CYVH 36 | 36 | 1615 | 1077 | 110 | 333 | 103 | 140 | 113 | 72 x 4 | 90 | 15 |
| CYVH 40 | 40 | 1955 | 1303 | 120 | 376 | 114 | 150 | 126 | 80 x 4 | 105 | 20 |
| CYVH 44 | 44 | 2350 | 1567 | 130 | 419 | 128 | 190 | 138 | 90 x 6 | 115 | 29 |
| CYVH 48 | 48 | 2765 | 1843 | 145 | 453 | 141 | 210 | 152 | 100 x 6 | 125 | 39 |
| CYVH 52 | 52 | 3300 | 2200 | 155 | 486 | 150 | 230 | 161 | 105 x 6 | 135 | 50 |
| CYVH 56 | 56 | 3900 | 2600 | 165 | 527 | 163 | 250 | 180 | 115 x 6 | 150 | 62 |
| CYVH 60 | 60 | 4400 | 2933 | 180 | 561 | 171 | 240 | 190 | 120 x 6 | 160 | 73 |
| CYVH 64 | 64 | 5000 | 3333 | 190 | 594 | 185 | 260 | 209 | 130 x 6 | 170 | 88 |
| CYVH 68 | 68 | 5550 | 3700 | 200 | 628 | 193 | 270 | 212 | 135 x 6 | 175 | 101 |
| CYVH 72 | 72 | 6250 | 4167 | 210 | 666 | 201 | 280 | 227 | 140 x 6 | 190 | 120 |
| CYVH 76 | 76 | 7000 | 4667 | 225 | 699 | 214 | 300 | 236 | 150 x 6 | 200 | 142 |
| CYVH 80 | 80 | 7700 | 5133 | 235 | 735 | 229 | 320 | 255 | 160 x 6 | 210 | 166 |
| CYVH 84 | 84 | 8500 | 5667 | 245 | 788 | 236 | 330 | 258 | 165 x 6 | 240 | 191 |
| CYVH 88 | 88 | 9400 | 6267 | 260 | 821 | 250 | 350 | 277 | 175 x 6 | 250 | 226 |
| CYVH 92 | 92 | 10200 | 6800 | 270 | 857 | 263 | 370 | 287 | 185 x 8 | 260 | 252 |
| CYVH 96 | 96 | 11100 | 7400 | 280 | 890 | 272 | 380 | 302 | 190 x 8 | 270 | 284 |
| CYVH 100 | 100 | 12000 | 8000 | 295 | 925 | 285 | 390 | 310 | 200 x 8 | 280 | 319 |
| CYVH 104 | 104 | 13000 | 8667 | 305 | 958 | 293 | 410 | 323 | 205 x 8 | 290 | 364 |
| CYVH 108 | 108 | 14000 | 9333 | 315 | 994 | 302 | 410 | 338 | 210 x 8 | 300 | 397 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D63** |
| **REDAELLI Socket for HDPE – CYVH** | |

## ANNEX D64

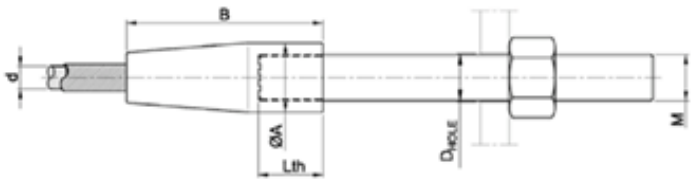
| Product Code | Cable Diameter $d_{max}$ | $N_{u,k}$ (1) | $N_{R,d}$ (2) | ØA | B | $D_{HOLE}$ | ØEW | HNW | M | $L_{th}$ | MASS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (mm) | (kN) | (kN) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (kg) |
| CYVH 112 | 112 | 15200 | 10133 | 325 | 1029 | 315 | 430 | 347 | 220 x 8 | 310 | 434 |
| CYVH 116 | 116 | 16150 | 10767 | 340 | 1062 | 329 | 450 | 366 | 230 x 8 | 320 | 495 |
| CYVH 120 | 120 | 17400 | 11600 | 350 | 1100 | 342 | 470 | 375 | 240 x 8 | 330 | 540 |
| CYVH 124 | 124 | 18450 | 12300 | 360 | 1133 | 350 | 490 | 389 | 245 x 8 | 340 | 604 |
| CYVH 128 | 128 | 19800 | 13200 | 370 | 1166 | 363 | 510 | 399 | 255 x 8 | 350 | 651 |
| CYVH 132 | 132 | 20900 | 13933 | 380 | 1199 | 371 | 510 | 404 | 260 x 8 | 360 | 688 |
| CYVH 136 | 136 | 22200 | 14800 | 390 | 1232 | 384 | 530 | 411 | 270 x 8 | 370 | 741 |
| CYVH 140 | 140 | 23500 | 15667 | 410 | 1270 | 398 | 550 | 430 | 280 x 10 | 380 | 854 |
| CYVH 144 | 144 | 24850 | 16567 | 420 | 1303 | 406 | 560 | 434 | 285 x 10 | 390 | 914 |
| CYVH 148 | 148 | 26250 | 17500 | 430 | 1336 | 414 | 570 | 449 | 290 x 10 | 400 | 987 |
| CYVH 152 | 152 | 27700 | 18467 | 445 | 1369 | 427 | 590 | 458 | 300 x 10 | 410 | 1078 |
| CYVH 156 | 156 | 29150 | 19433 | 455 | 1402 | 441 | 610 | 477 | 310 x 10 | 420 | 1162 |

(1) Please refer to note (1) in Annex D3.
(2) Please refer to note (2) in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D64** |
| **REDAELLI Socket for HDPE - CYVH** | |

## ANNEX D65

### Adjustable cylindrical socket CYMH




The minimum screw in length of the threaded rod is $L_{th}$ (fully screwed in) and must be respected.

| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | M (mm) | $L_{th}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|
| CYMH 12 | 12 | 190 | 127 | 40 | 115 | 29 | 27 x 3 | 30 | 0,5 |
| CYMH 16 | 16 | 320 | 213 | 55 | 150 | 38 | 36 x 3 | 40 | 1,3 |
| CYMH 20 | 20 | 490 | 327 | 65 | 189 | 45 | 42 x 3 | 50 | 2,3 |
| CYMH 24 | 24 | 700 | 467 | 75 | 228 | 59 | 50 x 3 | 60 | 3,8 |
| CYMH 28 | 28 | 970 | 647 | 90 | 256 | 59 | 56 x 4 | 65 | 6,1 |
| CYMH 32 | 32 | 1285 | 857 | 100 | 295 | 67 | 64 x 4 | 75 | 8,5 |
| CYMH 36 | 36 | 1615 | 1077 | 110 | 333 | 75 | 72 x 4 | 90 | 12 |
| CYMH 40 | 40 | 1955 | 1303 | 120 | 376 | 84 | 80 x 4 | 105 | 16 |
| CYMH 44 | 44 | 2350 | 1567 | 130 | 419 | 94 | 90 x 6 | 115 | 19 |
| CYMH 48 | 48 | 2765 | 1843 | 145 | 453 | 104 | 100 x 6 | 125 | 27 |
| CYMH 52 | 52 | 3300 | 2200 | 155 | 486 | 109 | 105 x 6 | 135 | 33 |
| CYMH 56 | 56 | 3900 | 2600 | 165 | 527 | 119 | 115 x 6 | 150 | 40 |
| CYMH 60 | 60 | 4400 | 2933 | 180 | 561 | 124 | 120 x 6 | 160 | 53 |
| CYMH 64 | 64 | 5000 | 3333 | 190 | 594 | 135 | 130 x 6 | 170 | 62 |
| CYMH 68 | 68 | 5550 | 3700 | 200 | 628 | 140 | 135 x 6 | 175 | 73 |
| CYMH 72 | 72 | 6250 | 4167 | 210 | 666 | 145 | 140 x 6 | 190 | 86 |
| CYMH 76 | 76 | 7000 | 4667 | 225 | 699 | 155 | 150 x 6 | 200 | 104 |
| CYMH 80 | 80 | 7700 | 5133 | 235 | 735 | 165 | 160 x 6 | 210 | 118 |
| CYMH 84 | 84 | 8500 | 5667 | 245 | 788 | 170 | 165 x 6 | 240 | 139 |
| CYMH 88 | 88 | 9400 | 6267 | 260 | 821 | 180 | 175 x 6 | 250 | 163 |
| CYMH 92 | 92 | 10200 | 6800 | 270 | 857 | 190 | 185 x 8 | 260 | 181 |
| CYMH 96 | 96 | 11100 | 7400 | 280 | 890 | 195 | 190 x 8 | 270 | 203 |
| CYMH 100 | 100 | 12000 | 8000 | 295 | 925 | 205 | 200 x 8 | 280 | 236 |
| CYMH 104 | 104 | 13000 | 8667 | 305 | 958 | 210 | 205 x 8 | 290 | 264 |
| CYMH 108 | 108 | 14000 | 9333 | 315 | 994 | 215 | 210 x 8 | 300 | 292 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D65** |
| **REDAELLI Socket for HDPE – CYMH** | |

## ANNEX D66

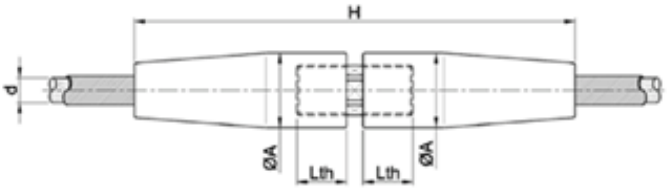
| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | ØA (mm) | B (mm) | $D_{HOLE}$ (mm) | M (mm) | $L_{th}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|
| CYMH 112 | 112 | 15200 | 10133 | 325 | 1029 | 225 | 220 x 8 | 310 | 318 |
| CYMH 116 | 116 | 16150 | 10767 | 340 | 1062 | 235 | 230 x 8 | 320 | 360 |
| CYMH 120 | 120 | 17400 | 11600 | 350 | 1100 | 245 | 240 x 8 | 330 | 393 |
| CYMH 124 | 124 | 18450 | 12300 | 360 | 1133 | 250 | 245 x 8 | 340 | 431 |
| CYMH 128 | 128 | 19800 | 13200 | 370 | 1166 | 261 | 255 x 8 | 350 | 463 |
| CYMH 132 | 132 | 20900 | 13933 | 380 | 1199 | 266 | 260 x 8 | 360 | 504 |
| CYMH 136 | 136 | 22200 | 14800 | 390 | 1232 | 276 | 270 x 8 | 370 | 540 |
| CYMH 140 | 140 | 23500 | 15667 | 410 | 1270 | 286 | 280 x 10 | 380 | 626 |
| CYMH 144 | 144 | 24850 | 16567 | 420 | 1303 | 291 | 285 x 10 | 390 | 678 |
| CYMH 148 | 148 | 26250 | 17500 | 430 | 1336 | 297 | 290 x 10 | 400 | 730 |
| CYMH 152 | 152 | 27700 | 18467 | 445 | 1369 | 307 | 300 x 10 | 410 | 802 |
| CYMH 156 | 156 | 29150 | 19433 | 455 | 1402 | 317 | 310 x 10 | 420 | 852 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D66** |
| **REDAELLI Socket for HDPE – CYMH** | |

**ANNEX D67**

Cylindrical socket with coupler CYCH




The minimum screw in length $L_{th}$ of the threaded rod must be respected.

| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | H (mm) | $L_{th}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|
| CYCH 12 | 12 | 190 | 127 | 40 | 248 | 30 | 1,2 |
| CYCH 16 | 16 | 320 | 213 | 55 | 320 | 40 | 3,3 |
| CYCH 20 | 20 | 490 | 327 | 65 | 392 | 50 | 5,7 |
| CYCH 24 | 24 | 700 | 467 | 75 | 475 | 60 | 9,5 |
| CYCH 28 | 28 | 970 | 647 | 90 | 536 | 65 | 15 |
| CYCH 32 | 32 | 1285 | 857 | 100 | 616 | 75 | 21 |
| CYCH 36 | 36 | 1615 | 1077 | 110 | 696 | 90 | 29 |
| CYCH 40 | 40 | 1955 | 1303 | 120 | 757 | 105 | 39 |
| CYCH 44 | 44 | 2350 | 1567 | 130 | 868 | 115 | 50 |
| CYCH 48 | 48 | 2765 | 1843 | 145 | 936 | 125 | 70 |
| CYCH 52 | 52 | 3300 | 2200 | 155 | 1002 | 135 | 85 |
| CYCH 56 | 56 | 3900 | 2600 | 165 | 1094 | 150 | 106 |
| CYCH 60 | 60 | 4400 | 2933 | 180 | 1162 | 160 | 135 |
| CYCH 64 | 64 | 5000 | 3333 | 190 | 1228 | 170 | 160 |
| CYCH 68 | 68 | 5550 | 3700 | 200 | 1306 | 175 | 186 |
| CYCH 72 | 72 | 6250 | 4167 | 210 | 1392 | 190 | 220 |
| CYCH 76 | 76 | 7000 | 4667 | 225 | 1458 | 200 | 265 |
| CYCH 80 | 80 | 7700 | 5133 | 235 | 1540 | 210 | 305 |
| CYCH 84 | 84 | 8500 | 5667 | 245 | 1646 | 240 | 362 |
| CYCH 88 | 88 | 9400 | 6267 | 260 | 1722 | 250 | 426 |
| CYCH 92 | 92 | 10200 | 6800 | 270 | 1814 | 260 | 481 |
| CYCH 96 | 96 | 11100 | 7400 | 280 | 1880 | 270 | 535 |
| CYCH 100 | 100 | 12000 | 8000 | 295 | 1950 | 280 | 619 |
| CYCH 104 | 104 | 13000 | 8667 | 305 | 2016 | 290 | 686 |
| CYCH 108 | 108 | 14000 | 9333 | 315 | 2088 | 300 | 757 |
| CYCH 112 | 112 | 15200 | 10133 | 325 | 2158 | 310 | 831 |
| CYCH 116 | 116 | 16150 | 10767 | 340 | 2224 | 320 | 938 |
| CYCH 120 | 120 | 17400 | 11600 | 350 | 2300 | 330 | 1029 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D67** |
| **REDAELLI Socket for HDPE – CYCH** | |

## ANNEX D68

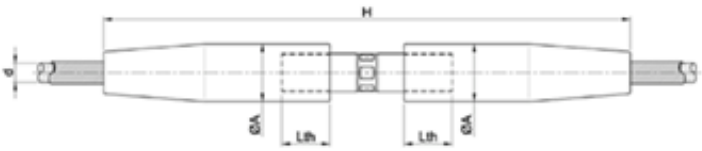
| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | ØA (mm) | H (mm) | $L_{th}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|
| CYCH 124 | 124 | 18450 | 12300 | 360 | 2386 | 340 | 1129 |
| CYCH 128 | 128 | 19800 | 13200 | 370 | 2452 | 350 | 1224 |
| CYCH 132 | 132 | 20900 | 13933 | 380 | 2518 | 360 | 1324 |
| CYCH 136 | 136 | 22200 | 14800 | 390 | 2584 | 370 | 1430 |
| CYCH 140 | 140 | 23500 | 15667 | 410 | 2665 | 380 | 1639 |
| CYCH 144 | 144 | 24850 | 16567 | 420 | 2731 | 390 | 1765 |
| CYCH 148 | 148 | 26250 | 17500 | 430 | 2797 | 400 | 1893 |
| CYCH 152 | 152 | 27700 | 18467 | 445 | 2863 | 410 | 2077 |
| CYCH 156 | 156 | 29150 | 19433 | 455 | 2929 | 420 | 2219 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D68** |
| **REDAELLI Socket for HDPE – CYCH** | |

## ANNEX D69

### Adjustable cylindrical socket with coupler CYAH




The minimum screw in length of the threaded rod is ≥ 1,0 x thread-Ø on each side. Dimension H plus adjustment must not be exceeded and the threaded rod is screwed in symmetrically.

| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | ØA (mm) | H (mm) | ADJUST. (mm) | $L_{th}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|
| CYAH 12 | 12 | 190 | 127 | 40 | 358 | ± 30 | 30 | 1,7 |
| CYAH 16 | 16 | 320 | 213 | 55 | 448 | ± 40 | 40 | 4,7 |
| CYAH 20 | 20 | 490 | 327 | 65 | 548 | ± 50 | 50 | 8,1 |
| CYAH 24 | 24 | 700 | 467 | 75 | 678 | ± 65 | 60 | 14 |
| CYAH 28 | 28 | 970 | 647 | 90 | 763 | ± 75 | 65 | 21 |
| CYAH 32 | 32 | 1285 | 857 | 100 | 890 | ± 90 | 75 | 30 |
| CYAH 36 | 36 | 1615 | 1077 | 110 | 1002 | ± 100 | 90 | 42 |
| CYAH 40 | 40 | 1955 | 1303 | 120 | 1075 | ± 110 | 105 | 54 |
| CYAH 44 | 44 | 2350 | 1567 | 130 | 1222 | ± 120 | 115 | 70 |
| CYAH 48 | 48 | 2765 | 1843 | 145 | 1332 | ± 130 | 125 | 99 |
| CYAH 52 | 52 | 3300 | 2200 | 155 | 1440 | ± 140 | 135 | 119 |
| CYAH 56 | 56 | 3900 | 2600 | 165 | 1544 | ± 150 | 150 | 146 |
| CYAH 60 | 60 | 4400 | 2933 | 180 | 1624 | ± 160 | 160 | 188 |
| CYAH 64 | 64 | 5000 | 3333 | 190 | 1762 | ± 180 | 170 | 227 |
| CYAH 68 | 68 | 5550 | 3700 | 200 | 1892 | ± 200 | 175 | 269 |
| CYAH 72 | 72 | 6250 | 4167 | 210 | 1990 | ± 200 | 190 | 310 |
| CYAH 76 | 76 | 7000 | 4667 | 225 | 2068 | ± 200 | 200 | 372 |
| CYAH 80 | 80 | 7700 | 5133 | 235 | 2162 | ± 200 | 210 | 423 |
| CYAH 84 | 84 | 8500 | 5667 | 245 | 2250 | ± 200 | 240 | 485 |
| CYAH 88 | 88 | 9400 | 6267 | 260 | 2328 | ± 200 | 250 | 568 |
| CYAH 92 | 92 | 10200 | 6800 | 270 | 2456 | ± 200 | 260 | 640 |
| CYAH 96 | 96 | 11100 | 7400 | 280 | 2534 | ± 200 | 270 | 710 |
| CYAH 100 | 100 | 12000 | 8000 | 295 | 2606 | ± 200 | 280 | 815 |
| CYAH 104 | 104 | 13000 | 8667 | 305 | 2684 | ± 200 | 290 | 899 |
| CYAH 108 | 108 | 14000 | 9333 | 315 | 2758 | ± 200 | 300 | 983 |
| CYAH 112 | 112 | 15200 | 10133 | 325 | 2820 | ± 200 | 310 | 1069 |
| CYAH 116 | 116 | 16150 | 10767 | 340 | 2878 | ± 200 | 320 | 1198 |
| CYAH 120 | 120 | 17400 | 11600 | 350 | 2946 | ± 200 | 330 | 1300 |

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D69** |
| **REDAELLI Socket for HDPE – CYAH** | |

## ANNEX D70

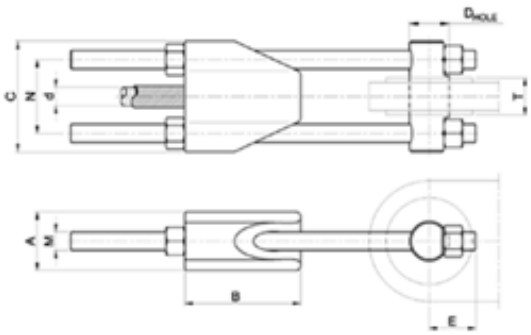
| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | ØA (mm) | H (mm) | ADJUST. (mm) | $L_{th}$ (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|
| CYAH 124 | 124 | 18450 | 12300 | 360 | 3034 | ± 200 | 340 | 1415 |
| CYAH 128 | 128 | 19800 | 13200 | 370 | 3102 | ± 210 | 350 | 1529 |
| CYAH 132 | 132 | 20900 | 13933 | 380 | 3158 | ± 210 | 360 | 1641 |
| CYAH 136 | 136 | 22200 | 14800 | 390 | 3212 | ± 210 | 370 | 1759 |
| CYAH 140 | 140 | 23500 | 15667 | 410 | 3285 | ± 210 | 380 | 1984 |
| CYAH 144 | 144 | 24850 | 16567 | 420 | 3339 | ± 210 | 390 | 2118 |
| CYAH 148 | 148 | 26250 | 17500 | 430 | 3373 | ± 210 | 400 | 2278 |
| CYAH 152 | 152 | 27700 | 18467 | 445 | 3437 | ± 210 | 410 | 2505 |
| CYAH 156 | 156 | 29150 | 19433 | 455 | 3501 | ± 210 | 420 | 2681 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D70** |
| **REDAELLI Socket for HDPE – CYAH** | |

## ANNEX D71

Bridge socket BRCH




| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ (1) (kN) | $N_{R,d}$ (2) (kN) | A (mm) | B (mm) | C (mm) | $D_{HOLE}$ (mm) | E (mm) | M (mm) | N (mm) | T min (mm) | T max (mm) | Adjust. (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BRCH 12 | 12 | 160 | 107 | 40 | 82 | 80 | 32 | 37 | 16 x 2 | 56 | 16 | 22 | ± 150 | 3,7 |
| BRCH 16 | 16 | 280 | 187 | 55 | 106 | 104 | 38 | 45 | 20 x 3 | 72 | 24 | 30 | ± 150 | 7,4 |
| BRCH 20 | 20 | 440 | 293 | 65 | 131 | 126 | 47 | 55 | 24 x 3 | 86 | 30 | 37 | ± 150 | 12 |
| BRCH 24 | 24 | 620 | 413 | 80 | 159 | 150 | 56 | 65 | 27 x 3 | 102 | 38 | 45 | ± 150 | 19 |
| BRCH 28 | 28 | 850 | 567 | 90 | 181 | 174 | 66 | 78 | 33 x 3.5 | 118 | 50 | 56 | ± 150 | 29 |
| BRCH 32 | 32 | 1150 | 767 | 105 | 207 | 198 | 72 | 85 | 36 x 3 | 134 | 55 | 60 | ± 200 | 41 |
| BRCH 36 | 36 | 1400 | 933 | 120 | 229 | 220 | 80 | 94 | 39 x 3 | 148 | 65 | 70 | ± 200 | 53 |
| BRCH 40 | 40 | 1750 | 1167 | 130 | 256 | 242 | 91 | 104 | 42 x 3 | 162 | 70 | 75 | ± 200 | 75 |
| BRCH 44 | 44 | 2100 | 1400 | 140 | 283 | 268 | 97 | 114 | 48 x 3 | 180 | 80 | 85 | ± 200 | 98 |
| BRCH 48 | 48 | 2500 | 1667 | 150 | 306 | 292 | 107 | 125 | 52 x 3 | 196 | 90 | 95 | ± 200 | 121 |
| BRCH 52 | 52 | 2950 | 1967 | 170 | 328 | 316 | 117 | 136 | 56 x 4 | 212 | 95 | 105 | ± 200 | 148 |
| BRCH 56 | 56 | 3400 | 2267 | 180 | 353 | 338 | 122 | 144 | 60 x 4 | 226 | 105 | 110 | ± 200 | 175 |
| BRCH 60 | 60 | 3900 | 2600 | 190 | 376 | 358 | 131 | 150 | 60 x 4 | 238 | 115 | 120 | ± 200 | 194 |
| BRCH 64 | 64 | 4500 | 3000 | 200 | 398 | 384 | 141 | 165 | 68 x 4 | 256 | 125 | 130 | ± 250 | 242 |
| BRCH 68 | 68 | 5000 | 3333 | 220 | 426 | 408 | 151 | 176 | 72 x 4 | 272 | 130 | 135 | ± 250 | 290 |
| BRCH 72 | 72 | 5600 | 3733 | 230 | 448 | 434 | 157 | 184 | 76 x 4 | 290 | 140 | 145 | ± 250 | 332 |
| BRCH 76 | 76 | 6300 | 4200 | 240 | 470 | 456 | 171 | 198 | 80 x 4 | 304 | 150 | 155 | ± 250 | 383 |
| BRCH 80 | 80 | 7000 | 4667 | 250 | 495 | 480 | 182 | 210 | 85 x 4 | 320 | 155 | 165 | ± 250 | 524 |
| BRCH 84 | 84 | 7700 | 5133 | 270 | 517 | 504 | 191 | 221 | 90 x 6 | 336 | 165 | 170 | ± 250 | 592 |
| BRCH 88 | 88 | 8500 | 5667 | 280 | 539 | 530 | 202 | 233 | 95 x 6 | 354 | 175 | 180 | ± 250 | 672 |
| BRCH 92 | 92 | 9300 | 6200 | 290 | 564 | 560 | 212 | 251 | 105 x 6 | 376 | 185 | 190 | ± 250 | 799 |
| BRCH 96 | 96 | 10100 | 6733 | 300 | 586 | 584 | 222 | 263 | 110 x 6 | 392 | 190 | 200 | ± 250 | 893 |
| BRCH100 | 100 | 10900 | 7267 | 310 | 610 | 608 | 232 | 274 | 115 x 6 | 408 | 195 | 205 | ± 300 | 994 |
| BRCH104 | 104 | 11800 | 7867 | 330 | 632 | 632 | 242 | 286 | 120 x 6 | 424 | 205 | 215 | ± 300 | 1113 |

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|---|---|
| **REDAELLI Cable System** | **Annex D71** |
| **REDAELLI Socket for HDPE – BRCH** | |

## ANNEX D72

| Product Code | Cable Diameter $d_{max}$ (mm) | $N_{u,k}$ [1] (kN) | $N_{R,d}$ [2] (kN) | A (mm) | B (mm) | C (mm) | $D_{HOLE}$ (mm) | E (mm) | M (mm) | N (mm) | T min (mm) | T max (mm) | Adjust (mm) | MASS (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BRCH108 | 108 | 12700 | 8467 | 340 | 657 | 652 | 252 | 293 | 120 x 6 | 436 | 210 | 225 | ± 300 | 1182 |
| BRCH112 | 112 | 13900 | 9267 | 350 | 681 | 682 | 272 | 317 | 130 x 6 | 458 | 215 | 230 | ± 300 | 1376 |
| BRCH116 | 116 | 14900 | 9933 | 360 | 703 | 702 | 282 | 324 | 130 x 6 | 470 | 225 | 240 | ± 300 | 1454 |
| BRCH120 | 120 | 15900 | 10600 | 380 | 730 | 726 | 292 | 336 | 135 x 6 | 486 | 230 | 250 | ± 300 | 1612 |
| BRCH124 | 124 | 17000 | 11333 | 390 | 752 | 750 | 303 | 348 | 140 x 6 | 502 | 240 | 255 | ± 300 | 1756 |
| BRCH128 | 128 | 18100 | 12067 | 400 | 774 | 774 | 313 | 360 | 145 x 6 | 518 | 250 | 265 | ± 300 | 1909 |
| BRCH132 | 132 | 19200 | 12800 | 410 | 796 | 800 | 323 | 372 | 150 x 6 | 536 | 255 | 270 | ± 300 | 2074 |
| BRCH136 | 136 | 20400 | 13600 | 430 | 818 | 830 | 333 | 389 | 160 x 6 | 558 | 265 | 280 | ± 300 | 2331 |
| BRCH140 | 140 | 21600 | 14400 | 440 | 840 | 858 | 343 | 406 | 170 x 6 | 578 | 270 | 290 | ± 300 | 2583 |
| BRCH144 | 144 | 22900 | 15267 | 450 | 862 | 890 | 353 | 423 | 180 x 6 | 602 | 280 | 300 | ± 300 | 2857 |
| BRCH148 | 148 | 24300 | 16200 | 460 | 884 | 914 | 363 | 435 | 185 x 6 | 618 | 290 | 310 | ± 300 | 3061 |
| BRCH152 | 152 | 25600 | 17067 | 480 | 906 | 938 | 373 | 446 | 190 x 6 | 634 | 300 | 320 | ± 300 | 3301 |
| BRCH156 | 156 | 26900 | 17933 | 490 | 928 | 962 | 383 | 458 | 195 x 6 | 650 | 310 | 330 | ± 300 | 3525 |

[1] Please refer to note [1] in Annex D3.
[2] Please refer to note [2] in Annex D3.

Dimensions $T_{min}$, $T_{max}$ refer to the supporting structure (the gusset plate) and they have to be proven separately (e.g. EN 1993-1-8: 2005+AC:2009)

| | |
|---|---|
| **REDAELLI Cable System** | **Annex D72** |
| **REDAELLI Socket for HDPE – BRCH** | |

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