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## **Nexans RHEYCORD® (RTS) (N)SHTOEU-J Cable**

Nexans Rheycord® 3x...+3x.../3 (RTS) (N)SHTÖU-J 0.6/1kV Heavy Duty Reeling Cables.

### **Application:**

Heavy duty rubber reeling cable for power supplies. For applications with high mechanical stress, especially for simultaneous tensile and torsional stress. Suitable for motor-driven reels, spring-operated and hoisting systems.

### **Design:**

Conductor: Flexible stranded plain copper according to DIN EN / IEC 60228 class 5

Insulation: Elastomeric HEPR compound according to IEC 60502-1

Inner sheath: Heavy duty chlorinated rubber compound 5GM5 according to DIN VDE 0207 part 21, colour: Yellow

Reinforcement: Synthetic treads with very high tensile strength as a protection against twist stress and pressure loads

Outer sheath: Heavy duty chlorinated rubber compound 5GM5 according to DIN VDE 0207 part 21; new special sandwich construction with incorporated braid for optimal flexibility and heavy duty applications, colour: Yellow

### **Marking:**

Inkjet marking e.g.:

RHEYCORD(RTS) (N)SHTOEU-J 4x35 0.6/1Kv | NEXANS | year

### **Core identification:**

According to DIN VDE 0293 part 308

### **Standard:**

UL File ZMHX.E60412

In line with DIN VDE 0250 part 814

GOSH R H00563

### **Construction characteristics:**

Type of conductor: Flexible, Class 5

Conductor material: Plain annealed copper

Inner sheath: Chlorinated rubber compound type 5GM5

Sheath colour: Yellow

Outer sheath: Chlorinated rubber compound type 5GM5

### **Electrical characteristics:**

Rated Voltage  $U_0/U$  ( $U_m$ ): 0.6/ (1.2) kV



### Usage characteristics:

Flame retardant: IEC 60332-1-2

Moisture resistance: Yes

Oil resistance: EN 60811-2-1

Ozone resistance: Yes

U.V resistance: Yes

Maximum conductor temperature in service: +90 °C

Short-circuit maximum conductor temperature: +250 °C

Ambient dynamic operating temperature, range: -35 to + 80 °C

Ambient static operating temperature, range: -50 to +80 °C

RoHS conform: Yes

### Product Characteristics:

ORDER REFERENCE NUMBER	CONSTRUCTION TYPE	MINIMUM OUTER DIAMETER (mm)	MAXIMUM OUTER DIAMETER (mm)	APPROX. CABLE WEIGHT KG/KM
RCORDRTS3X35+3X25	3x35+3x25/3	31.5	33.5	2,030
RCORDRTS3X50+3X25	3x50+3x25/3	33.0	36.0	2,450
RCORDRTS3X70+3X35	3x70+3x35/3	39.0	41.0	3,450
RCORDRTS3X95+3X50	3x95+3x50/3	43.0	46.0	4,150
RCORDRTS3X120+3X70	3x120+3x70/3	46.0	49.0	5,150
RCORDRTS3X150+3X70	3x150+3x70/3	53.0	56.0	6,400
RCORDRTS3X185+3X95	3x185+3x95/3	58.0	61.0	7,800
RCORDRTS3X240+3X120	3x240+3x120/3	67.0	69.0	10,605

### Electrical properties:

Rated Voltage 0.6/1Kv

CROSS-SECTION (mm <sup>2</sup> )	MAXIMUM CONDUCTOR RESISTANCE TO 20°C (Ohm/km)	APPROX. WEIGHT (kg/km)	PERMISSIBLE TENSILE LOAD (N)
3x35+3x25/3	0.554	2,030	2,625
3x50+3x25/3	0.386	2,475	3,750
3x70+3x35/3	0.272	3,445	5,250
3x95+3x50/3	0.206	4,225	7,125
3x120+3x70/3	0.161	5,150	9,000
3x150+3x70/3	0.129	6,415	11,250
3x185+3x95/3	0.106	7,890	13,875
3x240+3x120/3	0.0801	10,605	18,000
3x300+3x150/3	0.0641	12,285	22,500



<b>MAXIMUM OPERATING VOLTAGE IN AC SYSTEMS</b> <b>MAXIMUM OPERATING VOLTAGE IN DC SYSTEMS</b>	<b>Um</b> <b>Vm</b>	<b>1.2 kV</b> <b>1.8 kV</b>
Test voltage (according to DIN VDE 0250 part 814): Power Control	2.5 kV in AC 2.0 kV in DC	
Current carrying capacity	According to DIN VDE 0298-4	
Maximum conductor resistance	According to DIN EN / IEC 60228 Class 5	

### **Mechanical properties:**

<b>BENDING RADIUS</b>	<b>OUTER DIAMETER OF THE FLEXIBLE CABLE (mm)</b>			
	<b>UP TO 8</b>	<b>8 TO 12</b>	<b>12 TO 20</b>	<b>OVER 20</b>
Fixed installation	3 x D	3 x D	4 x D	4 x D
Free movement	3 x D	4 x D	5 x D	5 x D
Reeling application	5 x D	5 x D	5 x D	6 x D
Deflection pulleys	7.5 x D	7.5 x D	7.5 x D	7.5 x D
Tensile stress of the conductor	Static Dynamic		15 N/mm <sup>2</sup> 30 N/mm <sup>2</sup>	
Tests	Alternating / reversed bending test, roller bending test, torsional resistant test			
Reeling speed	Up to 240 m/min (higher speed upon request)			

E&amp;OE