

300 / 500 V

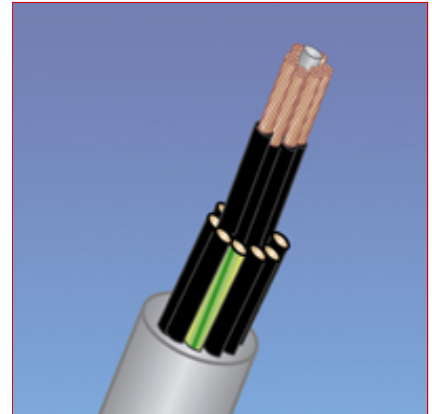
Description

Approval Certificates

VDE Reg N° 7691

Application

In dry and moist rooms for light mechanical stresses. Outdoors only when protected. Not in water. As supply and interconnecting cable for measuring, controlling and regulating acc. to DIN VDE 0113. For computer units, control equipments on machine tools assembly lines, conveyors and production lines for controlling, regulating and monitoring work processes, industrial plants and production lines when temporarily freely moved and no periodic recurrence without forced guidance. Cross sections above 10 mm² are energy supply cable for fixed installations on machine tools in production lines.



Design

- **Conductor**

Copper bare stranded, VDE 0295 Class 5

- **Insulation**

PVC Type YI 2 (Polyvinyl chloride)

- **Outer sheath**

PVC Type YM 2 (Polyvinyl chloride), colour grey,

- **Core identification**

according to DIN VDE 0293:1990-01

JZ: black, white printed numbers and/or without green/yellow core

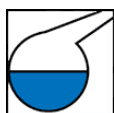
JB: coloured cores according to HD 308 S2



Lead free
Yes



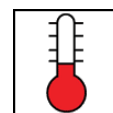
Cable flexibility
Flexible



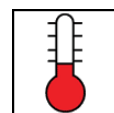
Chemical resistance
Occasional contact
yes



Fire retardant
IEC 60332-1



Dynamic operating
temperature, range
-15.0 .. 70.0 °C



Static operating
temperature, range
-35.0 .. 70.0 °C

Related Information

Marking

- Nexans Rheyflex® 500 Y-JZ- 300/500 n G s VDE Reg. No 7691 CE RoHS conform
- Nexans Rheyflex® 500 Y-OZ- 300/500 n x s VDE Reg. No 7691 CE RoHS conform
- Nexans Rheyflex® 500 Y-JB- 300/500 n G s VDE Reg. No 7691 CE RoHS conform
- Nexans Rheyflex® 500 Y-OB- 300/500 n x s VDE Reg. No 7691 CE RoHS conform

Contact

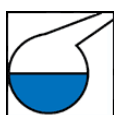
Cables for Industrial Applications
Nexans House, Chesney Wold,
Bleak Hall
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Phone: 01908 250840
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iandi.sales@nexans.com



Lead free
Yes



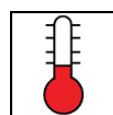
Cable flexibility
Flexible



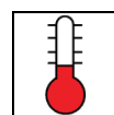
Chemical resistance
Occasional contact
yes



Fire retardant
IEC 60332-1



Dynamic operating
temperature, range
-15.0 .. 70.0 °C



Static operating
temperature, range
-35.0 .. 70.0 °C

Characteristics

Construction characteristics

Conductor material	Bare copper
Core identification	Black cores with white numbers
Insulation	PVC compound type YI 2
Outer sheath	PVC compound type YM 2
Lead free	Yes
Conductor flexibility	Flexible class 5
Sheath colour	Grey

Electrical characteristics

Test voltage (kV)	2 kV
Rated Voltage U ₀ /U	300 / 500 V

Mechanical characteristics

Cable flexibility	Flexible
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Usage characteristics

Chemical resistance	Occasional contact yes
Fire retardant	IEC 60332-1
Dynamic operating temperature, range	-15.0 .. 70.0 °C
Static operating temperature, range	-35.0 .. 70.0 °C
Dynamic bending factor	20 (xD)
Bending factor when installed	10.0 (xD)
RoHS conform	yes
Field of application	Indoor
Silicon free	Yes

Product List

Nexans ref.	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter (mm)	Approximate net weight (kg/km)	With Green/Yellow core	Packaging
78703002	2	0.5	4.7	32	No	longest_length
78803002	2	0.5	4.7	32	No	500 m
78813002	2	0.5	4.7	32	No	coil 100 m
78703003	3	0.5	5.1	39	Yes	longest_length
78803003	3	0.5	5.1	39	Yes	500 m
78813003	3	0.5	5.1	39	Yes	coil 100 m
78703004	4	0.5	5.4	46	Yes	longest_length
78803004	4	0.5	5.4	46	Yes	500 m
78813004	4	0.5	5.4	46	Yes	coil 100 m
78703005	5	0.5	6.2	57	Yes	longest_length
78803005	5	0.5	6.2	57	Yes	500 m
78813005	5	0.5	6.2	57	Yes	coil 100 m
78703006	6	0.5	7.2	64	Yes	longest_length
78703007	7	0.5	6.6	70	Yes	longest_length
78803007	7	0.5	6.6	70	Yes	500 m

RHEYFLEX® 500 -Y-

Nexans ref.	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter (mm)	Approximate net weight (kg/km)	With Green/ Yellow core	Packaging
78813007	7	0.5	6.6	70	Yes	coil 100 m
78703008	8	0.5	7.0	77	Yes	longest_length
78703010	10	0.5	8.4	97	Yes	longest_length
78703012	12	0.5	8.6	110	Yes	longest_length
78803012	12	0.5	8.6	110	Yes	500 m
78813012	12	0.5	8.6	110	Yes	coil 100 m
78703016	16	0.5	10.1	148	Yes	longest_length
78703018	18	0.5	10.1	160	Yes	longest_length
78703021	21	0.5	11.4	188	Yes	longest_length
78703025	25	0.5	12.5	219	Yes	longest_length
78703030	30	0.5	13.2	264	Yes	longest_length
78703034	34	0.5	13.8	283	Yes	longest_length
78703040	40	0.5	14.8	333	Yes	longest_length
78703042	42	0.5	15.4	353	Yes	longest_length
78703050	50	0.5	17.4	441	Yes	longest_length
78703065	65	0.5	19.4	556	Yes	longest_length
78703080	80	0.5	21.2	680	Yes	longest_length
78703100	100	0.5	23.4	844	Yes	longest_length
78803102	2	0.75	5.1	39	No	500 m
78813102	2	0.75	5.1	39	No	coil 100 m
78823102	2	0.75	5.1	39	No	1000 m
78703102	2	0.75	5.1	39	No	longest_length
78803103	3	0.75	5.4	50	Yes	500 m
78813103	3	0.75	5.4	50	Yes	coil 100 m
78823103	3	0.75	5.4	50	Yes	1000 m
78703103	3	0.75	5.4	50	Yes	longest_length
78803104	4	0.75	5.9	60	Yes	500 m
78813104	4	0.75	5.9	60	Yes	coil 100 m
78823104	4	0.75	5.9	60	Yes	1000 m
78703104	4	0.75	5.9	59	Yes	longest_length
78803105	5	0.75	6.7	72	Yes	500 m
78813105	5	0.75	6.7	72	Yes	coil 100 m
78823105	5	0.75	6.7	72	Yes	1000 m
78703105	5	0.75	6.7	68	Yes	longest_length
78703106	6	0.75	6.9	81	Yes	longest_length
78803107	7	0.75	7.1	90	Yes	500 m
78813107	7	0.75	7.1	90	Yes	coil 100 m
78823107	7	0.75	7.1	90	Yes	1000 m
78703107	7	0.75	7.1	90	Yes	longest_length
78703108	8	0.75	7.4	100	Yes	longest_length
78703109	9	0.75	8.1	128	Yes	longest_length
78703110	10	0.75	9.1	124	Yes	longest_length
78803112	12	0.75	9.4	146	Yes	500 m
78813112	12	0.75	9.4	146	Yes	coil 100 m

RHEYFLEX® 500 -Y-

Nexans ref.	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter (mm)	Approximate net weight (kg/km)	With Green/Yellow core	Packaging
78823112	12	0.75	9.4	146	Yes	1000 m
78703112	12	0.75	9.4	146	Yes	longest_length
78703114	14	0.75	9.9	166	Yes	longest_length
78703115	15	0.75	10.6	182	Yes	longest_length
78703116	16	0.75	10.8	215	Yes	longest_length
78803118	18	0.75	11.1	211	Yes	500 m
78813118	18	0.75	11.1	211	Yes	coil 100 m
78823118	18	0.75	11.1	211	Yes	1000 m
78703118	18	0.75	11.1	211	Yes	longest_length
78703121	21	0.75	12.4	254	Yes	longest_length
78803125	25	0.75	13.4	289	Yes	500 m
78813125	25	0.75	13.4	289	Yes	coil 100 m
78823125	25	0.75	13.4	289	Yes	1000 m
78703125	25	0.75	13.4	289	Yes	longest_length
78703132	32	0.75	14.9	380	Yes	longest_length
78703134	34	0.75	15.1	378	Yes	longest_length
78703141	41	0.75	16.0	452	Yes	longest_length
78703142	42	0.75	16.0	461	Yes	longest_length
78703150	50	0.75	18.1	559	Yes	longest_length
78703161	61	0.75	19.8	673	Yes	longest_length
78703165	65	0.75	22.7	774	Yes	longest_length
78703180	80	0.75	22.1	879	Yes	longest_length
78703200	100	0.75	24.6	1084	Yes	longest_length
78770543	3	0.75	5.4	50	No	longest_length
78803202	2	1	5.3	49	No	500 m
78813202	2	1	5.3	49	No	coil 100 m
78823202	2	1	5.3	49	No	1000 m
78703202	2	1	5.3	49	No	longest_length
78803203	3	1	5.6	60	Yes	500 m
78813203	3	1	5.6	60	Yes	coil 100 m
78823203	3	1	5.6	60	Yes	1000 m
78703203	3	1	5.6	60	Yes	longest_length
78803204	4	1	6.5	69	Yes	500 m
78813204	4	1	6.5	69	Yes	coil 100 m
78823204	4	1	6.5	69	Yes	1000 m
78803205	5	1	6.7	83	Yes	500 m
78813205	5	1	6.7	83	Yes	coil 100 m
78770474	3	1	5.8	57	No	longest_length
78823205	5	1	6.7	83	Yes	1000 m
78770475	4	1	6.1	69	No	longest_length
78703205	5	1	6.7	83	Yes	longest_length
78703206	6	1	7.0	101	Yes	longest_length
78803207	7	1	7.5	104	Yes	500 m
78813207	7	1	7.5	104	Yes	coil 100 m

RHEYFLEX® 500 -Y-

Nexans ref.	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter (mm)	Approximate net weight (kg/km)	With Green/Yellow core	Packaging
78823207	7	1	7.5	104	Yes	1000 m
78703207	7	1	7.5	104	Yes	longest_length
78703208	8	1	8.0	120	Yes	longest_length
78703209	9	1	9.9	161	Yes	longest_length
78703210	10	1	9.9	161	Yes	longest_length
78803212	12	1	9.9	174	Yes	500 m
78813212	12	1	9.9	174	Yes	coil 100 m
78823212	12	1	9.9	174	Yes	1000 m
78703212	12	1	9.9	174	Yes	longest_length
78703214	14	1	10.6	202	Yes	longest_length
78703215	15	1	11.1	215	Yes	longest_length
78703216	16	1	11.1	226	Yes	longest_length
78803218	18	1	11.7	252	Yes	500 m
78813218	18	1	11.7	252	Yes	coil 100 m
78823218	18	1	11.7	252	Yes	1000 m
78703218	18	1	11.7	252	Yes	longest_length
78703221	21	1	13.1	305	Yes	longest_length
78803225	25	1	14.3	346	Yes	500 m
78813225	25	1	14.3	346	Yes	coil 100 m
78823225	25	1	14.3	346	Yes	1000 m
78703225	25	1	14.3	346	Yes	longest_length
78703234	34	1	16.3	477	Yes	longest_length
78703241	41	1	17.7	566	Yes	longest_length
78703242	42	1	17.9	578	Yes	longest_length
78703250	50	1	19.1	682	Yes	longest_length
78703204	4	1	6.5	69	Yes	longest_length
78703300	100	1	27.5	1398	Yes	longest_length
78703261	61	1	20.5	883	Yes	longest_length
78703265	65	1	21.5	949	Yes	longest_length
78703280	80	1	24.3	1092	Yes	longest_length
78803304	4	1.5	7.4	92	Yes	500 m
78703334	34	1.5	18.8	642	Yes	longest_length
78813304	4	1.5	7.4	92	Yes	coil 100 m
78703342	42	1.5	20.5	798	Yes	longest_length
78823304	4	1.5	7.4	92	Yes	1000 m
78703350	50	1.5	22.2	926	Yes	longest_length
78703304	4	1.5	7.4	92	Yes	longest_length
78703361	61	1.5	23.7	1119	Yes	longest_length
78803305	5	1.5	7.9	109	Yes	500 m
78703365	65	1.5	24.7	1020	Yes	longest_length
78813305	5	1.5	7.9	109	Yes	coil 100 m
78703380	80	1.5	28.3	1545	Yes	longest_length
78823305	5	1.5	7.9	109	Yes	1000 m
78703400	100	1.5	30.1	1808	Yes	longest_length

RHEYFLEX® 500 -Y-

Nexans ref.	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter (mm)	Approximate net weight (kg/km)	With Green/Yellow core	Packaging
78703305	5	1.5	7.9	109	Yes	longest_length
78703306	6	1.5	8.6	133	Yes	longest_length
78803307	7	1.5	9.0	147	Yes	500 m
78813307	7	1.5	9.0	147	Yes	coil 100 m
78823307	7	1.5	9.0	147	Yes	1000 m
78703307	7	1.5	9.0	147	Yes	longest_length
78703308	8	1.5	9.5	169	Yes	longest_length
78703309	9	1.5	10.5	185	Yes	longest_length
78703310	10	1.5	11.3	210	Yes	longest_length
78803312	12	1.5	11.6	237	Yes	500 m
78813312	12	1.5	11.6	237	Yes	coil 100 m
78823312	12	1.5	11.6	237	Yes	1000 m
78703312	12	1.5	11.6	237	Yes	longest_length
78703314	14	1.5	12.0	271	Yes	longest_length
78703316	16	1.5	12.9	310	Yes	longest_length
78803318	18	1.5	13.7	347	Yes	500 m
78813318	18	1.5	13.7	347	Yes	coil 100 m
78703318	18	1.5	13.7	347	Yes	longest_length
78703321	21	1.5	14.9	403	Yes	longest_length
78803325	25	1.5	16.9	490	Yes	500 m
78813325	25	1.5	16.9	490	Yes	coil 100 m
78703325	25	1.5	16.9	490	Yes	longest_length
78703332	32	1.5	18.1	606	Yes	longest_length
78770442	3	1.5	6.7	78	No	500 m
78770308	4	1.5	7.2	97	No	500 m
78813303	3	1.5	6.5	79	Yes	coil 100 m
78823303	3	1.5	6.5	79	Yes	1000 m
78703303	3	1.5	6.5	79	Yes	longest_length
78803303	3	1.5	6.5	79	Yes	500 m
78823302	2	1.5	6.2	61	No	1000 m
78703302	2	1.5	6.2	61	No	longest_length
78813302	2	1.5	6.2	61	No	coil 100 m
78803302	2	1.5	6.2	61	No	500 m
78753402	2	2.5	7.3	92	No	longest_length
78853403	3	2.5	7.7	119	Yes	500 m
78863403	3	2.5	7.7	119	Yes	coil 100 m
78823403	3	2.5	7.7	119	Yes	1000 m
78753403	3	2.5	7.7	119	Yes	longest_length
78853404	4	2.5	8.5	148	Yes	500 m
78863404	4	2.5	8.5	148	Yes	coil 100 m
78823404	4	2.5	8.5	148	Yes	1000 m
78753404	4	2.5	8.5	148	Yes	longest_length
78853405	5	2.5	9.7	180	Yes	500 m
78863405	5	2.5	9.7	180	Yes	coil 100 m

RHEYFLEX® 500 -Y-

Nexans ref.	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter (mm)	Approximate net weight (kg/km)	With Green/Yellow core	Packaging
78823405	5	2.5	9.7	180	Yes	1000 m
78753405	5	2.5	9.7	180	Yes	longest_length
78853407	7	2.5	10.1	232	Yes	500 m
78823407	7	2.5	10.1	232	Yes	1000 m
78753407	7	2.5	10.1	232	Yes	longest_length
78753408	8	2.5	11.3	274	Yes	longest_length
78753412	12	2.5	13.9	377	Yes	longest_length
78753418	18	2.5	17.1	575	Yes	longest_length
78753425	25	2.5	20.7	786	Yes	500 m
78753434	34	2.5	21.7	1080	Yes	500 m
78753450	50	2.5	28.7	1566	Yes	500 m
78853504	4	4	10.2	219	Yes	500 m
78863504	4	4	10.2	219	Yes	coil 100 m
78823504	4	4	10.2	219	Yes	1000 m
78753504	4	4	10.2	219	Yes	longest_length
78753505	5	4	11.6	269	Yes	longest_length
78753507	7	4	12.8	356	Yes	500 m
78753503	3	4	9.3	176	Yes	longest_length
78753603	3	6	11.0	255	Yes	longest_length
78853604	4	6	12.3	323	Yes	500 m
78863604	4	6	12.3	323	Yes	coil 100 m
78823604	4	6	12.3	323	Yes	1000 m
78753604	4	6	12.3	323	Yes	longest_length
78753605	5	6	13.5	391	Yes	longest_length
78753607	7	6	14.9	519	Yes	500 m
78753703	3	10	14.0	411	Yes	500 m
78753704	4	10	15.0	513	Yes	500 m
78753705	5	10	17.1	650	Yes	500 m
78753707	7	10	18.8	844	Yes	500 m
78753803	3	16	18.2	653	Yes	longest_length
78753804	4	16	19.2	844	Yes	500 m
78753805	5	16	21.3	1012	Yes	500 m
78753807	7	16	23.8	1367	Yes	500 m
78753854	4	25	23.0	1252	Yes	500 m
78753855	5	25	25.8	1548	Yes	500 m
78753857	7	25	28.5	2078	Yes	500 m
78753904	4	35	26.7	1658	Yes	500 m
78763905	5	35	29.5	2029	Yes	500 m
78751907	7	35	38.0	3156	Yes	longest_length
78772985	5	50	34.7	2920	Yes	500 m
78770270	4	50	31.5	2360	Yes	500 m
78770267	4	70	35.7	3201	Yes	500 m
78772986	5	70	40.0	4011	Yes	500 m
78770268	4	95	41.1	4259	Yes	500 m

RHEYFLEX® 500 -Y-

Nexans ref.	Number of cores	Conductor cross-section (mm ²)	Nominal outer diameter (mm) (mm)	Approximate net weight (kg/km) (kg/km)	With Green/Yellow core	Packaging
78772987	5	95	45.6	5292	Yes	500 m
78770269	4	120	45.1	5263	Yes	500 m