

Radio-frequency Cables



Cable Solutions for Industries

THE QUALITY CONNECTION

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LEONI Special Cables

LEONI Special Cables stands for many years of experience and innovation within the field of cables and cable systems. Our catalogues give you an overview of the variety of cables we offer. You can find the most frequently used types ranging from insulated wires and strands to coaxial cables and cable assemblies.

In addition we develop and manufacture many more cable varieties than can be shown in our brochures. Please contact us if you are looking for a product to suit your special application. Together we design your cable solution.



Cable Solutions for Industries



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Coaxial cables, disc-tube construction

CATWay, QKX

75 Ω coaxial cable

for the CATV trunk area

Type: 2YHOK2Y 3.3/13.5-75

Order-No.: V45460-D 21-B436



Application

These cables are used to transfer both analogue and digital signals with a very wide bandwidth (up to around 1 GHz). They allow bi-directional communication, data transfer, television and interactive services, such as Internet or homeworking. They can be installed in conduits and cable ducts or directly buried.

Construction

Commonly high quality copper wire is used for the inner conductor.

The dielectric is a non-conductive material, ideally air. To reduce the dielectric losses of the insulation, cavity insulation is often used for trunk area and distribution area cables with PE discs ensuring the centricity of the inner conductor. The disc-tube dielectric is notable for its very good attenuation values.

The outer conductor of the coaxial outdoor cables is particularly important since it protects against radiation and irradiation of electric energy. It is made of an overlapping or welded copper band – this design is in particularly widespread use in the network operated by Deutsche Telekom since it offers the best possible protective effect.

The external sheath, which is the last structural element of the coaxial cable, is made of PE or FRNC.

Constructions are available in accordance with DIN VDE, MIL, BS UL, CSA Deutsche Telekom specification 6145-3300 or Dutch PTT specification.

| Conductor | Annotation | Type designation | Outer- Ø | Copper value | Net weight | Deliv. length | Pack- aging | Order-Number |
|---------------------|--|--|-------------|-----------------|---------------|------------------|----------------|---------------------|
| | | | mm | kg/km | kg/km | m | | |
| 1.7/6.9; bare wire | distribution area 6dB | 2YHOTEK2Y 1.7/6.9-75 GN | 10.4 | 51 | 106 | 2000 | drum | V45460-D 17-B 6 |
| 1.7/6.9; bare wire | distribution area 6dB | 2YHOTEK2Y 1.7/6.9-75 SW | 10.4 | 51 | 106 | 2000 | drum | V45460-D 17-B 26 |
| 1.7/6.9; bare wire | distribution area 6dB, green longitudinal marking | 2YHOTEK2Y 1.7/6.9-75 SW | 10.4 | 51 | 105 | 2000 | drum | V45460-D 17-B 46 |
| 1.7/6.9; bare wire | CATW ay distribution area 6dB | 2YHOTEK2Y 1.7/6.9-75 SW | 10.4 | 51 | 106 | 2000 | drum | V45460-D 17-B176 |
| 1.7/6.9; bare wire | CATW ay distribution area 6dB | 2YHOTEK2Y 1.7/6.9-75 SW | 10.4 | 51 | 106 | 500 | drum | V45460-D 17-B176-L6 |
| 1.7/6.9; bare wire | CATW ay distribution area 6dB | 2YHOTEK2Y 1.7/6.9-75 SW | 10.4 | 51 | 106 | 1000 | drum | V45460-D 17-B176-L7 |
| 1.7/6.9; bare wire | distribution area 6dB | 2YHOTEK2Y 1.7/6.9-75 SW | 10.4 | 51 | 106 | 500 | drum | V45460-D 17-B186 |
| 1.7/6.9; bare wire | distribution area 6dB | 2YHOTEK2Y 1.7/6.9-75 SW | 10.4 | 51 | 106 | 1000 | drum | V45460-D 17-B196 |
| 1.7/6.9; bare wire | distribution area 6dB, supporting strand | 2YHOTEK2YT2Y 1.7/6.9-75 SW | 12.4 | 51 | 218 | 1000 | drum | V45460-D 17-B 36 |
| 1.7/6.9; bare wire | distribution area 6dB, armoured | 2YHOTEK2YB2Y 1.7/6.9-75 (2B0,2VZK) GN | 15.2 | 51 | 288 | 1000 | drum | V45460-D 17-B 16 |
| 1.7/6.9; bare wire | distribution area 6dB, FRNC, armoured | 2YHOTEK2YB2Y 1.7/6.9-75 GN FRNC (3B0,3 VZK) | 15.2 | 51 | 356 | 1000 | drum | V45460-D 17-B156 |
| 2.2/8.8; bare wire | CATW ay distribution area NKx | 2YHOTEK2Y 2.2/8.8-75 SW | 12.2 | 112 | 177 | 1000 | drum | V45460-D 19-B176 |
| 2.2/8.8; bare wire | distribution area NKx, lightning protection | 2YHOTEK2YD2Y 2.2/8.8-75 (CU16) | 18.1 | 300 | 443 | 1000 | drum | V45460-D 19-B206 |
| 3.3/13.5; bare wire | CATW ay trunk area 3dB | 2YHOTEK2Y 3.3/13.5-75 SW | 18.0 | 165 | 313 | 1000 | drum | V45460-D 21-B426 |
| 3.3/13.5; bare wire | trunk area 3dB | 2YHOTEK2Y 3.3/13.5-75 SW | 18.0 | 165 | 308 | 1200 | drum | V45460-D 21-B156 |
| 3.3/13.5; bare wire | trunk area 3dB | 2YHOTEK2Y 3.3/13.5-75 SW | 18.0 | 166 | 312 | 700 | drum | V45460-D 21-B416 |
| 3.3/13.5; bare wire | trunk area 3dB | 2YHOTEK2Y 3.3/13.5-75 GN | 18.2 | 165 | 311 | 1200 | drum | V45460-D 21-B126 |
| 3.3/13.5; bare wire | trunk area 3dB | 2YHOTEK2Y 3.3/13.5-75 GN | 18.0 | 165 | 310 | 1000 | drum | V45460-D 21-B186 |
| 3.3/13.5; bare wire | trunk area 3dB, supporting strand | 2YHOTEK2YT2Y 3.3/13.5-75 SW | 20.8 | 165 | 526 | 600 | drum | V45460-D 21-B166 |
| 3.3/13.5; bare wire | trunk area 3dB, armoured | 2YHOTEK2YB2Y 3.3/13.5-75 (2B0,3VZK) GN | 23.4 | 165 | 633 | 600 | drum | V45460-D 21-B136 |
| 3.3/13.5; bare wire | CATW ay trunk area QKx | 2YHOTEK2Y 3.3/13.5-75 SW | 16.8 | 201 | 310 | 1000 | drum | V45460-D 21-B436 |

Coaxial cables

with solid or foamed PE dielectric – 75 Ω

CATWay

75 Ω coaxial cable for the CATV drop area

Type: 02YS(ST)C2Y 1.13/4.8-75 SW

Order-No.: V45466-D 12-C 6



CATWay, IKX

75 Ω coaxial cable for the CATV drop area

Type: 2YK2Y 1.1/7.3-75

Order-No.: V45466-D 18-B76



Application

Using 75 Ω coaxial cables, it is possible to transmit both analogue and digital signals with a very large bandwidth (they are also suitable for satellite receiver systems). They allow bi-directional communication, data transmission, television and interactive services such as Internet or homeworking. Depending on their construction the cables are used for in-house as well as for outdoor applications.

Construction

High quality solid copper or a copper clad steel wire is used for the inner conductor.

In principle a distinction is made between a solid PE and cellular PE dielectric. The cellularisation of the dielectric allows better attenuation values to be achieved compared to the solid PE version, whilst retaining the same dimensions. With modern techniques, a cellularisation level of up to 80 % (in other words up to 80 % air in the dielectric) is possible.

The external conductor of a copper cable is made of a welded copper band this design is in particularly widespread use in the network operated by Deutsche Telekom since it offers the best possible protective effect. Particularly for house cabling, but also in the drop area, cables with outer conductors made of copper or aluminium foil are used, which are fitted with a copper braid to provide additional screening.

The external sheath is made of PE, PVC or FRNC.

Constructions are available in accordance with DIN VDE, EN, IEC, CSA, Dutch PTT specification or Society of Telecommunications Engineers, INC.

Temperature range

| | |
|------|------------------------|
| PE | – 40 °C up to + 70 °C |
| PVC | – 20 °C up to + 70 °C |
| FRNC | – 20 °C up to + 70 °C |
| FEP | – 90 °C up to + 180 °C |

| Conductor | Annotation | Type designation | Outer- Ø | Copper value | Net weight | Deliv. length | Pack- aging | Order-Number |
|--|------------------------------------|--------------------------------------|-------------|-----------------|---------------|------------------|----------------|---------------------|
| | | | mm | kg/km | kg/km | m | | |
| 0.3/1.6; copper clad steel silver plated strand | similar to RG179, UL-Style 1999 | 5YC6Y 0.3/1.6-75 LI STAKU VS BR | 2.5 | 7 | 15 | 250 | coil | V45462-D 12-F 7 |
| 0.3/1.6; copper clad steel silver plated strand | similar to RG179 | 6YC6Y 0.30/1.6-75 LI STAKU VS GN | 2.5 | 7 | 15 | 500 | coil | V45466-D 12-G 7 |
| 0.3/1.6; copper clad steel silver plated strand | similar to RG179 | 6YC6Y 0.30/1.6-75 LI STAKU VS BR | 2.5 | 7 | 15 | 500 | coil | V45466-D 12-G 17 |
| 0.3/1.6; copper clad steel silver plated strand | similar to RG179 | 6YC6Y 0.30/1.6-75 LI STAKU VS SW | 2.5 | 7 | 15 | 500 | coil | L45466-D 12-G 27 |
| 0.39/1.6 bare strand | UL-Style 1957 | 06YC6Y 0.39/1.6-75 LI WS | 2.5 | 7 | 12 | 250 | ring | V45466-D 12-N 7 |
| 2x0.39/1.6 silver plated strand | 2 x coax | 06YC6Y C6Y 2x0.39/1.6-75 LI VS WS | 6.7 | 34 | 67 | 1000 | drum | V45466-D 212-N 7 |
| 3x0.39/1.6 silver plated strand | 3 x coax | 06YC6Y C6Y 3x0.39/1.6-75 LI VS WS | 7.1 | 44 | 83 | 1000 | drum | V45466-D 112-N 7 |
| 12x0.39/1.6 bare strand | 12 x coax | 02YSC2Y Y 12x0.39/1.6-75 LI | 10.8 | 74 | 111 | 1000 | drum | V45466-D 212-C 25 |
| 0.3/1.95 bare wire | | 2YCCY 0.3/1.95-75 | 3.4 | 18 | 23 | 3000 | drum | V45466-D 12-B 15 |
| 2x0.37/1.6 bare wire | 2 x coax | 02YCY 2x1x0.37/1.65-75 GR | 3.8 | 13 | 31 | 2000 | drum | V45466-D 12-C 5 |
| 0.4/2.5; copper clad steel bare wire | FTZ-Norm TL 6145-3300 | 2YCY 0.4/2.5-75 (Z2/5) STAKU | 3.8 | 8 | 20 | 250 | ring | V45466-D 1-B 5 |
| 0.4/2.5; copper clad steel bare wire | FTZ-Norm TL 6145-3300 | 2YCCY 0.4/2.5-75 (R2/100) STAKU | 4.5 | 16 | 29 | 250 | ring | V45466-D 1-B 15 |
| 0.4/2.5; copper clad steel bare wire | FTZ-Norm TL 6145-3300 | 2YCCY 0.4/2.5-75 (R2/100) STAKU GR | 4.5 | 16 | 29 | 1000 | drum | V45466-D 13-B 15-L7 |
| 0.4/2.5; copper clad steel bare wire | FTZ-Norm TL 6145-3300 | 2YCCY 0.4/2.5-75 (R2/100) STAKU GR | 4.5 | 16 | 29 | 2000 | drum | V45466-D 13-B 15-L8 |
| 0.4/2.5; copper clad steel bare wire | FTZ-Norm TL 6145-3300 | 2Y(MS)CY 0.4/2.5-75 (Z2/5) STAKU WS | 4.8 | 19 | 35 | 1000 | drum | V45466-D 1-B 25 |
| 0.4/2.5; copper clad steel bare wire | FTZ-Norm TL 6145-3300 | 2Y(MS)CY 0.4/2.5-75 (Z2/5) WS STAKU | 4.7 | 19 | 34 | 250 | ring | V45466-D 13-B 25-F5 |
| 0.4/2.5; copper clad steel bare wire | | 2Y(MS)CH 0.4/2.5-75 STAKU WS FRNC | 4.8 | 19 | 36 | 250 | ring | L45466-D 13-B 36 |
| 6x0.4/2.0 silver plated wire | 6 x coax | 02YS(ST)CY(ST)CY 6x0.4/2.0-75 VZN GR | 12.8 | 103 | 212 | 1000 | drum | V45466-D 313-C 5 |
| 12x0.4/2.0 silver plated wire | 12 x coax | 02YS(ST)CY (ST)CY 12x0.4/2.0 VZN GR | 16.3 | 175 | 322 | 1000 | drum | V45466-D 313-C 15 |
| 0.45/2.0 silver plated wire | UL-Style 1354 | 02YS(ST)CY 0.45/2.0-75 VS GR | 3.4 | 8 | 16 | 250 | ring | V45466-D 13-C 15 |
| 0.45/2.0 silver plated wire | UL-Style 1354 | 02YS(ST)CY 0.45/2.0-75 VS GR | 3.4 | 8 | 16 | 1500 | drum | V45466-D 13-C 45 |

| Conductor | Annotation | Type designation | Outer- Ø | Copper value | Net weight | Deliv. length | Pack- aging | Order-Number |
|----------------------------------|--|-----------------------------------|-------------|-----------------|---------------|------------------|----------------|---------------------|
| | | | mm | kg/km | kg/km | m | | |
| 0.45/2.0 silver plated wire | UL-Style 1354 | 02YS(ST)CY 0.45/2.0-75 VS GR | 3.4 | 8 | 16 | 3000 | drum | V45466-D 13-C 35 |
| 2x0.45/2.0 silver plated wire | 2 x coax | 02YS(ST)CYY 2x0.45/2.0-75 VS GR | 8.5 | 18 | 76 | 250 | ring | V45466-D 113-C 65 |
| 2x0.45/2.0 bare strand | flat cable 2 x coax | 02YS(ST)CY 2x0.45/2.0-75 VS GR | 3.4 | 16 | 33 | 3000 | drum | V45466-D 113-C 25 |
| 4x0.45/2.0 silver plated wire | 4 x coax | 02YS(ST)CYY 4x0.45/2.0-75 VS GR | 10.3 | 34 | 108 | 350 | drum | V45466-D 113-C 45 |
| 8x0.45/2.0 silver plated wire | 8 x coax | 02YS(ST)CY 8x0.45/2.0-75 VS GR | 10.5 | 108 | 161 | 2000 | drum | V45466-D 113-C 5 |
| 8x0.45/2.0 silver plated wire | 8 x coax | 02YS(ST)CY 8x0.45/2.0-75 VS GR | 10.5 | 108 | 161 | 400 | drum | V45466-D 113-C 15 |
| 0.45/2.0 silver plated wire | UL-Style 1375, FRNC | 02YS(ST)CH 0.45/2.0-75 VS GR FRNC | 3.4 | 8 | 15 | 1500 | drum | V45466-D 13-C 16 |
| 0.45/2.0 silver plated wire | UL-Style 1375, FRNC | 02YS(ST)CH 0.45/2.0-75 VS GR FRNC | 3.4 | 8 | 15 | 250 | ring | V45466-D 13-C 16-F5 |
| 0.45/2.0 silver plated wire | UL-File E116 441 | 02YS12YC(MS)C6Y 0.45/2.0-75 VS WS | 3.8 | 16 | 28 | 250 | ring | V45466-D 13-C 17 |
| 0.45/2.0 silver plated wire | UL-File E116 441 | 02YS12YC(MS)C6Y 0.45/2.0-75 VS WS | 3.8 | 16 | 28 | 1500 | drum | V45466-D 13-C 17-L2 |
| 0.45/2.0 silver plated wire | | 02YS12YC(MS)CY 0.45/2.0-75 VS GR | 3.8 | 16 | 25 | 250 | ring | V45466-D 13-C 25 |
| 0.45/2.0 silver plated wire | | 02YS12YC(MS)CY 0.45/2.0-75 VS GR | 3.8 | 16 | 25 | 1500 | drum | V45466-D 13-C 25-L2 |
| 0.48/2.9 bare strand | | 2YCCH 0.48/2.95-75 LI SW | 5.8 | 40 | 57 | 2000 | drum | V45466-D 13-B 26 |
| 0.5/3.0 silver plated wire | FTZ-Norm TL 6145-3300 | 2YC(MS)CY 0.5/3.0-75 VS WS (Z2/5) | 6.0 | 29 | 53 | 250 | ring | V45466-D 2-B 25 |
| 0.5/3.0 silver plated wire | FRNC | 2YC(MS)CH 0.5/3.0-75 VS WS FRNC | 6.0 | 29 | 51 | 2000 | drum | V45466-D 14-B106 |
| 3x0.5/2.4 bare strand | UL-Style 20351 3 x coax | 02YC11Y 3x0.5/2.4-75 LI PETROL | 11.5 | 96 | 177 | 1000 | drum | V45466-D 113-C 8 |
| 5x0.5/2.4 bare strand | 5 x coax monitor cable | 02YC11Y 5x0.5/2.4-75 LI SW | 11.8 | 101 | 167 | 1000 | drum | V45466-D 113-C 18 |
| 5x0.5/2.4 bare strand | UL-Style 2560, 5xcoax monitor cable | 02SYCY Y 5x0.5/2.4-75 LI GR | 12.3 | 80 | 192 | 1000 | drum | V45466-D 113-C 55 |
| 0.51/2.3 tin plated wire | | 02YSCCY 0.51/2.3-75 VZN GR | 3.7 | 18 | 24 | 1100 | drum | V45466-D 13-C 65 |
| 0.51/2.3 tin plated wire | | 02YSCCYCY 0.51/2.3-75 VZN GR | 5.2 | 33 | 47 | 3000 | drum | V45466-D 13-C 55 |
| 0.51/2.3 tin plated wire | | 02YSCCYCY 0.51/2.3-75 GR 7000 | 5.0 | 31 | 45 | 3000 | drum | V45466-D 13-C 75 |

| Conductor | Annotation | Type designation | Outer- Ø | Copper value | Net weight | Deliv. length | Pack- aging | Order-Number |
|---|---|-------------------------------------|-------------|-----------------|---------------|------------------|----------------|-------------------|
| | | | mm | kg/km | kg/km | m | | |
| 0.54/2.4 tinned strand | | 02YSCCY 0.54/2.45 LI VZN WS | 4.5 | 29 | 36 | 2000 | drum | V45466-D 13-C 85 |
| 0.6/3.7 bare wire | similar to RG 59 | 2YCY 0.6/3.7-75 GN | 5.4 | 17 | 36 | 1000 | drum | V45466-D 14-B185 |
| 0.6/3.7 tinned strand | UL-Style 1354, similar to RG 59 | 2YCY 0.6/3.7-75 LI VZN | 5.9 | 29 | 55 | 1000 | drum | V45466-D 14-B295 |
| 0.6/3.7; copper clad steel, bare wire | similar to RG 59, cold- resistant to – 40 °C | 2YCY 0.6/3.7-75 STAKU KF40 SW | 6.2 | 26 | 51 | 1000 | drum | V45461-D 14-B 5 |
| 0.6/3.7 bare wire | FRNC, similar to RG 59 | 2YCH 0.6/3.7-75 SW FRNC | 6.0 | 17 | 44 | 2000 | coil | V45466-D 14-B 86 |
| 0.6/3.7 bare wire | FRNC, similar to RG 59 | 2YCH 0.6/3.7-75 GN FRNC | 6.0 | 18 | 45 | 2000 | coil | V45466-D 14-B 96 |
| 0.6/3.7; copper clad steel, bare wire | Triax, cold-resistant to – 25 °C | 2YCYCY 0.6/3.7-75 STAKU SW KF25 | 9.4 | 99 | 149 | 500 | drum | V45466-D 14-B245 |
| 0.6/3.7; copper clad steel, bare wire | Triax, cold-resistant to – 25 °C | 2YCYCY 0.6/3.7-75 STAKU SW KF25 | 8.4 | 62 | 109 | 1000 | drum | V45466-D 14-B105 |
| 0.6/3.7 tin plated strand | Triax, UL-Style 1107 | 2YCYCY 0.6/3.7-75 LI VZN | 7.5 | 58 | 97 | 1000 | drum | V45466-D 14-B305 |
| 0.6/3.7 bare wire | Triax, FRNC | 2YCHCH 0.6/3.7-75 SW FRNC | 8.2 | 43 | 85 | 3000 | drum | V45466-D 14-B 76 |
| 0.6/2.8 bare wire | FRNC | 02YS(ST)CH 0.6/2.8-75 GN FRNC | 4.5 | 12 | 26 | 1000 | drum | L45466-D 13-C 26 |
| 0.65/3.0; copper clad steel, bare wire | PE-sheath | 02YSC2Y 0.65/3.0-75 STAKU SW | 4.0 | 12 | 19 | 2100 | drum | V45466-D 14-C 6 |
| 0.7/4.4 silver plated wire | FTZ-Norm TL 6145-3300 | 2YCY 0.7/4.4-75 (Z2/5) VS GR | 6.0 | 24 | 50 | 250 | ring | V45466-D 3-B 5 |
| 0.7/4.4 silver plated wire | FTZ-Norm TL 6145-3300 | 2YCCY 0.7/4.4-75 (R2/100) VS GR | 7.4 | 41 | 76 | 250 | ring | V45466-D 3-B 15 |
| 0.7/4.4 silver plated wire | | 2YC2Y(MS)CY 0.7/4.4-75 (Z2/5) VS WS | 8.2 | 55 | 105 | 250 | ring | V45466-D 3-B 25 |
| 0.75/4.8 bare wire | CATWay in-house cable | 2Y(ST)CY 0.75/4.8-75 WS | 6.8 | 24 | 60 | 500 | drum | V45466-D 15-B445 |
| 0.75/4.8 bare wire | CATWay FRNC in-house cable | 2Y(ST)CH 0.75/4.8-75 WS FRNC | 6.8 | 24 | 54 | 500 | drum | L45466-D 15-B216 |
| 0.75/4.8 bare wire | CATWay - drop area | 2YTKC2Y 0.75/4.8-75 | 7.0 | 34 | 63 | 2000 | drum | V45466-D 15-B176 |
| 3x0.75/4.8 bare strand | 3 x coax | 2YCYCY 3x0.75/4.8-75 GR | 17.2 | 154 | 375 | 500 | drum | V45466-D 615-B 15 |
| 0.8/3.5 bare wire | CATWay in-house cable, series 59 | 02YS(ST)CY 0.8/3.5-75 WS | 5.0 | 17 | 32 | 200 | ring | V45466-D 14-C 25 |
| 0.8/3.5 bare wire | CATWay - FRNC in-house cable | 02YS(ST)CH 0.8/3.5-75 WS FRNC | 5.0 | 17 | 29 | 200 | ring | L45466-D 14-C 56 |

| Conductor | Annotation | Type designation | Outer- Ø | Copper value | Net weight | Deliv. length | Pack- aging | Order-Number |
|-------------------------------|---|---|-------------|-----------------|---------------|------------------|----------------|---------------------|
| | | | mm | kg/km | kg/km | m | | |
| 2x0.8/3.5 bare wire | CATWay -FRNC- In-house cable (flat) | 02YS(ST)CH 2x0.8/3.5-75 WS FRNC STEG | 5.4 | 34 | 65 | 100 | ring | L45466-D 114-C 6 |
| 4x0.8/3.5 bare wire | CATWay -FRNC- In-house cable (flat) | 02YS(ST)CH 4x0.8/3.5-75 WS FRNC STEG | 5.4 | 69 | 130 | 200 | drum | L45466-D 114-C 26 |
| 4x0.8/3.5 bare wire | CATWay -In-house cable (flat) | 02YS(ST)CY 4x0.8/3.5-75 WS STEG | 5.4 | 69 | 147 | 200 | drum | L45466-D 114-C 35 |
| 1.0/6.5 silver plated wire | FTZ-Norm TL 6145-3300 | 2YCY 1.0/6.5-75 (Z2/5) VS GR | 8.2 | 42 | 90 | 250 | ring | V45466-D 4-B 35 |
| 1.0/6.5 bare wire | | 2YCY 1.0/6.5-75 | 9.0 | 41 | 100 | 1000 | drum | V45466-D 17-B195 |
| 1.0/4.6 bare wire | CATWay in-house cable, series 6 | 02YS(ST)CY 1.0/4.6-75 WS | 6.8 | 28 | 57 | 500 | drum | V45466-D 15-C 55 |
| 1.0/4.6 bare wire | CATWay FRNC in-house cable | 02YS(ST)CH 1.0/4.6-75 WS FRNC | 6.8 | 28 | 50 | 500 | drum | L45466-D 15-C106 |
| 1.0/6.5 silver plated wire | FTZ-Norm TL 6145-3300 | 2YCCY 1.0/6.5-75 (R2/100) VS GR | 9.3 | 68 | 120 | 250 | ring | V45466-D 4-B 5 |
| 1.0/6.5 silver plated wire | FTZ-Norm TL 6145-3300 | 2YCCY 1.0/6.5-75 (R2/100) VS GN | 9.3 | 68 | 120 | 250 | ring | V45466-D 4-B 15 |
| 1.0/6.5 silver plated wire | FRNC | 2YCCH 1.0/6.5-75 VS GR FRNC | 9.3 | 68 | 117 | 1000 | drum | L45466-D 17-B 86 |
| 1.0/6.5 silver plated wire | FTZ-Norm TL 6145-3300 | 2YC(MS)CY 1.0/6.5-75 VS WS | 9.5 | 80 | 145 | 250 | ring | V45466-D 4-B 55 |
| 1.0/6.5 silver plated wire | FTZ-Norm TL 6145-3300 | 2YC(MS)CY 1.0/6.5-75 VS WS | 9.5 | 80 | 145 | 250 | drum | V45466-D 17-B 55-L5 |
| 1.0/6.5 silver plated wire | | 2YC(MS)CY 1.0/6.5-75 (Z2/5) VS WS | 9.5 | 80 | 145 | 250 | ring | V45466-D 17-B135 |
| 1.0/6.5 silver plated wire | | 2YC(MS)CY 1.0/6.5-75 (Z2/5) VS WS | 9.5 | 80 | 145 | 1000 | drum | V45466-D 17-B175 |
| 1.1/7.3 bare wire | CATWay drop area IKx | 2YK2Y 1.1/7.3-75 | 10.7 | 74 | 141 | 1000 | drum | V45466-D 18-B76 |
| 1.1/7.3 bare wire | CATWay drop area | 2YTK2Y 1.1/7.3-75 | 10.4 | 39 | 110 | 500 | drum | L45466-D 18-B126 |
| 1.13/4.8 bare wire | CATWay in-house cable | 02YS(ST)CY 1.13/4.8-75 WS | 6.8 | 30 | 55 | 500 | drum | V45466-D 12-C 25 |
| 1.13/4.8 bare wire | CATWay drop area | 02YS(ST)C2Y 1.13/4.8-75 WS | 6.8 | 30 | 46 | 500 | drum | V45466-D 12-C 6 |
| 1.13/4.8 bare wire | CATWay FRNC in-house cable | 02YS(ST)CH 1.13/4.8-75 WS FRNC | 6.8 | 30 | 49 | 500 | drum | L45466-D 12-C 56 |
| 2x1.13/4.8 bare wire | CATWay FRNC in-house cable | 02YS(ST)CH 2x1.13/4.8-75 WS FRNC | 5.5 | 59 | 99 | 500 | drum | L45466-D 112-C 26 |
| 1.2/7.25 tin plated strand | similar to RG11, cold-resistant to – 40°C | 2YCY 1.2/7.25-75 LI VZN KF 40 | 10.3 | 63 | 133 | 2000 | drum | V45462-D 18-B 5 |

| Conductor | Annotation | Type designation | Outer- Ø | Copper value | Net weight | Deliv. length | Pack- aging | Order-Number |
|----------------------------------|--|--|-------------|-----------------|---------------|------------------|----------------|------------------|
| | | | mm | kg/km | kg/km | m | | |
| 1.23/8.0 bare wire | | 2YTK2Y 1.23/8.0-75 | 10.3 | 41 | 109 | 1000 | drum | V45466-D 19-B 16 |
| 1.23/8.0 bare wire | | 2YTK2Y2Y 1.23/8.0-75 | 12.8 | 41 | 152 | 1000 | drum | V45466-D 19-B 26 |
| 1.23/8.0 bare wire | round wire armouring | 2YTK2YB2Y 1.23/8.0-75 SW (R1,4VZK) | 16.3 | 41 | 490 | 1000 | drum | V45466-D 19-B106 |
| 1.30/5.7 bare wire | CATWay in-house cable, series 7 | 02YS(ST)CY 1.30/5.7-75 WS | 8.1 | 37 | 77 | 1000 | drum | V45466-D 16-C 25 |
| 1.30/5.7 bare wire | CATWay FRNC in-house cable | 02YS(ST)CH 1.30/5.7-75 WS FRNC | 8.1 | 37 | 68 | 1000 | drum | L45466-D 16-C 6 |
| 1.45/6.4 silver plated strand | FRNC | 02YSCCH 1.45/6.4-75 LI VS SW FRNC | 9.2 | 73 | 106 | 1000 | drum | V45466-D 17-C 56 |
| 1.6/10.0 silver plated wire | steel tape armouring | 2YC(MS)CYBY 1.6/10.0-75 VS (2B0,5VZK) | 22.6 | 218 | 894 | 1000 | drum | V45466-D 21-B 55 |
| 1.6/10.0 silver plated wire | flat wire armouring | 2YC(MS)CYBY 1.6/10.0-75 VS (F0,8VZK) | 22.0 | 218 | 895 | 1000 | drum | V45466-D 21-B 65 |
| 1.6/10.0 silver plated wire | off shore platform | HC(MS)CH 1.6/10.0-75 (Z2/5) FRNC | 16.7 | 222 | 430 | 1000 | drum | V45466-D 21-B146 |
| 1.6/10.0 silver plated wire | off shore platform flat wire armouring | HC(MS)CHBH 1.6/10.0-75 VS(Z2/5)(F0,8VZK) FRNC | 21.9 | 213 | 913 | 1000 | drum | V45466-D 21-B156 |
| 1.6/10.0 silver plated wire | FTZ-Norm TL 6145-3300 | 2YC(MS)CY 1.6/10.0 (Z2/5) VS WS | 14.8 | 218 | 353 | 1000 | drum | V45466-D 5-B 5 |
| 1.63/7.2 bare wire | CATWay in-house cable, series 11 | 02YS(ST)CY 1.63/7.2-75 WS | 10.1 | 55 | 115 | 1000 | drum | V45466-D 18-C 25 |
| 1.63/7.2 bare wire | CATWay FRNC in-house cable | 02YS(ST)CH 1.63/7.2-75 WS FRNC | 10.1 | 55 | 101 | 1000 | drum | L45466-D 18-C 86 |
| 1.63/7.2 bare wire | CATWay drop area | 02YSTKC2Y 1.63/7.2-75 | 10.0 | 57 | 93 | 500 | drum | L45466-D 18-C 96 |
| 2.1/8.8 bare wire | CATWay distribution area NKx | 02YSK2Y 2.1/8.8-75 | 11.3 | 112 | 145 | 500 | drum | L45466-D 19-C 66 |
| 2.65/10.6 bare wire | CATWay distribution area, corrugated | 02YWK2Y 2.65/10.6-75 | 14.1 | 155 | 201 | 500 | drum | L45466-D 21-C 46 |
| 3.3/13.5 bare wire | CATWay trunk area QKx | 02YSK2Y 3.3/13.5-75 | 16.8 | 202 | 277 | 500 | drum | L45466-D 21-C 36 |
| 3.9/15.2 bare wire | CATWay trunk area, corrugated | 02YWK2Y 3.9/15.2-75 | 19.8 | 259 | 299 | 700 | drum | L45466-D 22-C146 |

Coaxial cables – 50 Ω

Coaxial cable 50 Ω

IEEE 802.3, 10BASE2, UL-Style 1354

Type: 02Y(ST)CY 0.95/2.52-50 LI VZN GR

Order-No.: V45466-B 13-C 5



Application

50 Ω cables are commonly used for antennas or systems transmitting and receiving radio communication signals.

Construction

High quality solid copper or a copper clad steel wire is used for the inner conductor.

In principle a distinction is made between a solid PE and cellular PE dielectric.

The cellularisation of the dielectric allows better attenuation values to be achieved compared to the solid PE version, whilst retaining the same dimensions. With modern techniques, a cellularisation level of up to 80 % (in other words up to 80 % air in the dielectric) is possible.

The construction of the outer conductor depends on the required mechanical and electrical characteristics. Multiple shields ensure advanced crosstalk attenuation and screening properties.

The external sheath is made of PE, PVC or FRNC.

Constructions are available in accordance with DIN VDE, EN, IEC and CSA.

Temperature range

| | |
|------|------------------------|
| PE | – 40 °C up to + 70 °C |
| PVC | – 20 °C up to + 70 °C |
| FRNC | – 20 °C up to + 70 °C |
| FEP | – 90 °C up to + 180 °C |

| Conductor | Annotation | Type designation | Outer- Ø | Copper value | Net weight | Deliv. length | Pack- aging | Order-Number |
|---|---|----------------------------------|-------------|-----------------|---------------|------------------|----------------|--------------------|
| | | | mm | kg/km | kg/km | m | | |
| 0.3/0.84 silver plated copperweld strand | RG 178 | 5YC6Y 0.3/0.84-50 LI STAKU VS BR | 1.8 | 3 | 10 | 100 | ring | V45462-B 11-F 7 |
| 0.48/1.5 bare copperweld strand | UL-Style 1354 | 2YCY 0.48/1.5-50 LI STAKU | 2.5 | 6 | 10 | 500 | ring | V45466-B 12-B 55 |
| 0.5/1.5 silver plated strand | | 6YC11Y 0.5/1.5-50 LI VS SW | 3.1 | 7 | 15 | 5000 | drum | V45466-B 12-G 8 |
| 0.5/1.6 silver plated wire | UL-Style 1354 tin filled braid | 99Y6Y 0.5/1.6-50 (CM) VS BL | 2.4 | 11 | 19 | 250 | coil | V45466-B 12-Y 7 |
| 8x0.5/1.6 | UL-File E119100, shield with tin filled braid | 99YY 8x0.5/1.6-50 (CM) VS GR | 9.1 | 90 | 175 | 1000 | drum | V45466-B 112-Y 5 |
| 0.54/1.5 silver plated strand | UL-Style 1999 | 6YCC6Y 0.54/1.55-50 LI VS BR | 3.0 | 16 | 24 | 500 | coil | V45466-B 12-G 17 |
| 0.9/2.95 tinned strand | UL-Style 1354 | 2YCY 0.9/2.95-50 LI VZN KF40 | 5.0 | 21 | 37 | 250 | ring | V45462-B 1-B 5 |
| 0.9/2.95 tinned strand | similar to RG58 | 2YCY 0.9/2.95-50 LI VZN | 4.9 | 16 | 32 | 3000 | drum | V45466-B 13-B 95 |
| 0.9/2.95 tinned strand | similar to RG58, trailing cable | 2YCY 0.9/2.95 LI VZN | 4.9 | 18 | 34 | 2000 | drum | V45466-B 13-B135 |
| 0.9/2.95 tinned strand | similar to RG58, FRNC | 2YCH 0.9/2.95-50 LI VZN FRNC | 5.0 | 22 | 37 | 3000 | drum | V45466-B 13-B156 |
| 0.89/2.95 silver plated wire | similar to RG223, UL-Style 1354, cold-resistant to – 40°C | 2YCCY 0.89/2.95-50 VS KF40 | 5.3 | 41 | 53 | 1000 | drum | V45466-B 13-B 5 |
| 0.95/2.52 tinned strand | IEEE 802.3, 10BASE2, UL-Style 1354 | 02Y(ST)CY 0.95/2.52-50 LI VZN GR | 4.7 | 16 | 31 | 180 | ring | V45466-B 13-C 5 |
| 0.95/2.52 tinned strand | IEEE 802.3, 10BASE2, UL-Style 1354 | 02Y(ST)CY 0.95/2.52-50 LI VZN GR | 4.7 | 16 | 31 | 1000 | drum | V45466-B 13-C 5-L7 |
| 1.0/2.95 silver plated copperweld wire | similar to RG142 | 5YCC6Y 1.0/2.95-50 STAKU VS BR | 5.0 | 34 | 62 | 100 | ring | V45461-B 13-F 7 |
| 2.25/7.2 bare strand | similar to RG213, cold-resistant to – 40°C | 2YCY 2.25/7.25-50 LI KF40 | 10.3 | 87 | 150 | 100 | ring | V45462-B 2-B 5 |
| 2.25/7.2 silver plated strand | similar to RG214, UL-Style 1354, cold-resistant to – 40 °C | 2YCCY 2.25/7.25-50 LI VS KF40 | 10.8 | 129 | 189 | 100 | ring | V45462-B 2-B 15 |
| 2.25/7.2 silver plated strand | similar to RG214, UL-Style 1354, cold-resistant to – 40 °C | 2YCCY 2.25/7.25-50 LI VS KF40 | 10.8 | 129 | 189 | 1000 | drum | V45462-B 2-B 15-L7 |
| 2.8/7.3 bare strand | > 1.5 Mio bends | 02YCC11Y 2.8/7.3-50 LI | 10.7 | 110 | 157 | 1500 | drum | V45466-B 18-C 8 |
| 2.8/7.3 silver plated strand | | 02YC(ST)CH 2.8/7.3-50 LI VS | 10.7 | 144 | 198 | 1500 | drum | V45466-B 18-C 16 |
| 2.75/7.2 silver plated wire | mobile communications | 02YS(ST)CY 2.75/7.2-75 ALCU | 10.3 | 34 | 109 | 1000 | drum | L45466-B18-C15 |

Coaxial cables, special constructions

Hybrid coaxial cable 75 Ω camera cable

Type: 02YSCH 0.8/3.5-75
LIH 3x1x1.5
LIH H 2x2x0.56 PIMF FRNC GN
Order-No.: V45466-D 114-W 6



Application

50 – 95 Ω cables are commonly used for data transmission systems.

Construction

High quality solid copper or a copper clad steel wire is used for the inner conductor.

The dielectric comprises of solid PE, foamed PE or foamed FEP.

The construction of the outer conductor depends on the required mechanical and electrical characteristics. In order to ensure advanced crosstalk attenuation and screening properties cables with multiple shields or a welded copper tube are used.

In addition to the coaxial elements the cables consist of additional control cores.

The external sheath is made of PVC or FRNC.

Constructions are available in accordance with DIN VDE, EN, IEC and CSA.

Temperature range

| | |
|------|------------------------|
| PE | – 40 °C up to + 70 °C |
| PVC | – 20 °C up to + 70 °C |
| FRNC | – 20 °C up to + 70 °C |
| FEP | – 90 °C up to + 180 °C |

| Conductor | Annotation | Type designation | Outer- Ø | Copper value | Net weight | Deliv. length | Pack- aging | Order-Number |
|---------------------------------|------------------------------|---|-------------|-----------------|---------------|------------------|----------------|-------------------|
| | | | mm | kg/km | kg/km | m | | |
| 4x0.2/0.6 coax 50 Ω | UL-Style 20689 | 6YC6Y 4x0.2/0.6-50 | 7.2 | 42 | 82 | 1000 | drum | V45466-B 111-W 8 |
| 1.4/4.8 hybrid coax 50 Ω | cold-resistant to - 40 °C | 2YC(ST)2Y 1.4/4.8-50 LI2Y 5x1x2.5 LI2Y CY 4x4x0.25 GN KF40 | 17.8 | 306 | 482 | 500 | drum | V45466-B 15-B 5 |
| 4x0.24/0.65 hybrid coax 50 Ω | UL-Style 4437 | LI6YD6Y 4x1x0.24/0.65-50 VS 7Y 3x1x0.09 VS 7Y 4x1x0.15 VS LLK-6Y C2G 1x2.95/3.6 WS | 8.4 | 40 | 97 | 500 | drum | V45466-B 111-W 9 |
| 0.48/1.5 hybrid coax 50 Ω | UL-Style 20433 A | 2YCY 0.48/1.5-50 LI LI7YCY 1x2x0.24 VS LI7Y CY 1x7x0.24 VS | 9.2 | 70 | 131 | 1000 | drum | V45466-B 212-W 15 |
| 7x0.5/1.5 hybrid coax 50 Ω | | 99YC6Y 7x0.5/1.5-50 LI STAKU VS LI7Y C11Y 14x1x0.22 VS | 12.2 | 128 | 243 | 500 | drum | V45466-B 212-W 19 |
| 0.48/1.15 hybrid coax 50 Ω | UL-Style 2560 | 02YCY 0.48/1.15-50 LI LIY 1x1x0.96 LIY 1x1x0.61 LIY CY 1x1x0.15 VZN GR NC | 6.1 | 39 | 63 | 2000 | drum | V45466-B 712-W 5 |
| 0.5/1.50 hybrid coax 50 Ω | UL-Style 20689 | 6YC7Y 0.5/1.50-50 LI LI7Y D11Y 13x1x0.09 VS GR | 7.0 | 33 | 74 | 1000 | drum | V45466-B1112-W 8 |
| 0.6/1.80 hybrid coax 50 Ω | UL-Style 20689 | 6YC 0.6/1.80-50 LI LI7Y C11Y 13x1x0.09 VS GR | 6.9 | 42 | 79 | 1000 | drum | V45466-B1112-W 18 |
| 2x0.6/1.8 hybrid coax 50 Ω | UL-Style 20689 | 6YC7Y 2x0.6/1.8-50 LI LI7Y 2x7x0.09 LI7Y D11Y 11x1x0.09 VS GR | 9.5 | 74 | 144 | 1000 | drum | V45466-B1112-W 28 |
| 1.0/4.5 coax 60 Ω | | 2YCY 1.0/4.5-60 LI BLW SW | 6.0 | 25 | 48 | 100 | ring | V45466-C 12-B 5 |
| 1.0/4.5 coax 60 Ω | | 2YCY 1.0/4.5-60 LI WS | 6.0 | 25 | 48 | 100 | ring | V45462-C 2-B 15 |
| 3.0/9.1 coax 60 Ω | | 02YSCY 3.0/9.1-60 LI BL | 15.3 | 115 | 282 | 1000 | drum | L45466-C 20-C 5 |
| 0.74/4.8 coax 70 Ω | Low-Noise-Coax | (HS)2Y(HS)TKC2Y 0.74/4.8-70 | 8.4 | 19 | 65 | 100 | coil | V45466-Y 15-B 66 |
| 3x0.19/0.75 hybrid coax 75 Ω | Micro-Coax | 05YD6Y 3x0.19/0.70 -75 LI VS LI7Y C2G 22x0.06 VZN GR | 7.2 | 30 | 57 | 1000 | drum | V45466-D 111-W 9 |
| 0.19/0.75 hybrid coax 75 Ω | UL-Style 4437, Micro-Coax | 05YD6Y 0.19/0.70-75 LI VS LI7Y (ST)C2G 17x1x0.06 VZN WS | 7.2 | 27 | 65 | 1000 | drum | V45466-D 111-W 19 |
| 3x0.22/0.8 hybrid coax 75 Ω | UL-Style 4437, Micro-Coax | 05YD6Y 3x0.22/0.80-75 LI 7Y (ST)C2G 22x0.06 GR | 7.2 | 30 | 69 | 1000 | drum | V45466-D 111-W 29 |

| Conductor | Annotation | Type designation | Outer- Ø | Copper value | Net weight | Deliv. length | Pack- aging | Order-Number |
|-------------------------------|---|--|-------------|-----------------|---------------|------------------|----------------|----------------------|
| | | | mm | kg/km | kg/km | m | | |
| 0.39/1.6 hybrid coax 75 Ω | UL-Style 2343, cold-resistant to - 20°C | 06YC99YC7Y 0.39/1.65-75 LI VS LI7YC6Y 4x2x0.14 VS LI7YC6Y 4x2x0.14 VS LI7Y 6x1x0.62 VS LI7Y 3x1x0.24 VS LI7Y 6x1x0.96 VS LI7Y CY 6x1x0.96 VS GNGE | 16.5 | 288 | 466 | 500 | drum | V45466-D 112-W 15 |
| 0.39/1.65 hybrid coax 75 Ω | UL-Style 20353 | 06YC99YC7Y 0.39/1.65-75 LI VS LI7YD7YC7Y 1x3x0.62 VS LI7YC7Y 7x1x0.24 VS LI7YC7Y 4x1x0.15 VS LI7YC7Y 2x1x0.15 VS/2x1x0.38 VS LI7YC7Y 2x1x0.15 VS LI7Y 2x1x0.62 VS LI7Y 4x1x0.24 VS LI7Y 2x1x0.38 VS LI7Y C6Y 4x1x0.15 VS GR | 13.9 | 207 | 374 | 500 | drum | V45466-D 112-W 18 |
| 0.5/2.4 hybrid coax 75 Ω | camera cable | 02YC12Y 0.5/2.4-75 LI LI12Y 2x0.25 VZN LI12Y C11Y 2x0.14 VZN PETROL | 7.0 | 40 | 70 | 1000 | drum | V45466-D 113-W 8 |
| 0.73/3.7 hybrid coax 75 Ω | | 02YS(ST)C 0.73/3.7-75 2Y Y 1x0.6/1.2 WS | 5.8 | 17 | 39 | 1000 | drum | V45466-D 114-W 15 |
| 0.8/3.5 hybrid coax 75 Ω | FRNC | 02YS(ST)C 0.8/3.5-75 H H 1x0.6/1.2 WS FRNC | 5.8 | 13 | 36 | 2000 | drum | V45466-D 114-W 16 |
| 0.8/3.5 hybrid coax 75 Ω | FRNC | 02YS(ST)C 0.8/3.5-75 H H 1x0.6/1.2 WS FRNC | 5.8 | 13 | 36 | 1000 | drum | V45466-D 114-W 16-L7 |
| 0.8/3.5 hybrid coax 75 Ω | FRNC, camera cable with maritime approval | 02YSCH 0.8/3.5-75 LIH 3x1x1.5 LIH H 2x2x0.56 PIMF FRNC | 11.3 | 93 | 146 | 1000 | drum | V45466-D 114-W 26 |
| 0.3/1.6 hybrid coax 75 Ω | | 6Y(ST)CY 0.3/1.6-75 STAKU LI VS LI9Y 6x1x0.14 LI9Y 2x1x0.25 LI9Y 11Y 2x1x0.14 (C) GRWS | 6.6 | 23 | 50 | 2000 | drum | V45466-D 212-W 18 |
| 0.3/1.6 hybrid coax 75 Ω | | 6YCY 0.3/1.6 STAKU LI VS LI9Y 14x1x0.14 LI9Y 11Y 4x1x0.25 GRWS | 8.3 | 37 | 85 | 1500 | drum | V45466-D 212-W 8 |
| 3x0.3/1.7 hybrid coax 75 Ω | | 2YCY 3x0.3/1.7 LI LIYCY Y 5x1x0.06 GRWS | 8.0 | 29 | 75 | 1000 | drum | V45466-D 412-W 8 |

| Conductor | Annotation | Type designation | Outer- Ø | Copper value | Net weight | Deliv. length | Pack- aging | Order-Number |
|---|---------------------|--|-------------|-----------------|---------------|------------------|----------------|-------------------|
| | | | mm | kg/km | kg/km | m | | |
| 0.7/4.4 hybrid coax 75 Ω | | 2YCY 0.7/4.4-75 LI LIYY-Z 1x3x0.75 LIYY-Z 2Y 2x7x0.18 VZN GR | 15.1 | 76 | 205 | 500 | drum | V45466-D 415-W 16 |
| 5x0.39/1.6 hybrid coax 75 Ω | UL-Style 2571 | 06YC6Y 5x0.39/1.6-75 LI LI99Y 1x3x0.5 LI99Y 2x7x0.14 LI99Y CY 7x1x0.14 GR | 11.7 | 138 | 244 | 1000 | drum | V45466-D 512-W 5 |
| 0.5/3.0 hybrid coax 75 Ω | | 2YCY 0.5/3.0-75 Y Y 3x1x1.4 | 13.0 | 61 | 218 | 500 | drum | V45466-D 514-W 5 |
| 2x0.6/3.7 hybrid coax 75 Ω | UL-Style 2490 | 2YCICY 2x0.6/3.7-75 LI VZN LIY-J 2x1x3.0 LIY-J 1x1x1.5 LIY-Z 2x1x1.5 LIY 4x1x0.75 LIYCY Y 9x1x0.24 VZN GR | 20.0 | 312 | 597 | 400 | drum | V45466-D 914-W 45 |
| 6x0.3/1.3 hybrid coax 75 Ω | UL-Style 20745 | 06YC6Y 6x0.3/1.3-75 STAKU 7Y 1x4x0.09 VZN 7Y C11Y 6x1x0.09 VZN GR | 8.1 | 62 | 109 | 1000 | drum | V45466-D1612-W 8 |
| 0.4/2.1 hybrid coax 75 Ω | UL-Style 20351, CSA | 6YC6YC6Y 0.4/2.1-75 LI LI6YC7Y 1x2x0.38 LI7Y 12x1x0.38 LI7Y 3x2x0.24 LI7Y C11Y 2x1x0.24 VZN GR | 11.8 | 143 | 232 | 1000 | drum | V45466-D1813-W 8 |
| 20x0.25/1.6 coax 92 Ω | UL-Style 20761 | 02YSCY Y 20x0.25/1.6-92 VZN GR | 14.0 | 122 | 241 | 1000 | drum | V45466-E 212-C 5 |
| 20x0.4/2.6 multi coax with disc-tube- dielectric 95 Ω | UL-Style 20579 B | 2YHOCYY 20x0.4/2.6-95 BL VZN | 20.5 | 235 | 457 | 1000 | drum | V45460-E 613-B 5 |
| 0.45/5.5 coax 120 Ω | | 02Y(ST)CY 0.45/5.5-120 LI GR | 7.7 | 24 | 79 | 250 | ring | V45462-F 1-C 5 |

Balanced pair cables – 120 Ω

Balanced pair 120 Ω

Type: 02YS(ST)Y 2x2x0.4/1.0-120
GR PIMF

Order-No.: V45467-F 14-C 85



Application

Transmission of telecommunications signals up to 20 MHz. The cables are used in switches or digital systems.
For fixed installation or moderate movement.

Construction

The construction varies in accordance with the electrical and mechanical requirements. In order to ensure advanced crosstalk attenuation (e.g. in case of great level differences) cables with special shield constructions are used.

Constructions are available in accordance with DIN VDE, UL and CSA.

Temperature range

– 20 °C up to + 70 °C

| Conductor | Annotation | Type designation | Outer- Ø | Copper value | Net weight | Deliv. length | Pack- aging | Order-Number |
|----------------|---|--|-------------|-----------------|---------------|------------------|----------------|----------------------|
| | | | mm | kg/km | kg/km | m | | |
| 1 x wire Ø 0.4 | FTZ-Norm TL 6145-3101 | 02YS(ST)Y 1x2x0.4/1.0-120 VZN GR | 2.8 | 4 | 8 | 250 | cone | V45467-F 14-C 25 |
| 1 x wire Ø 0.4 | FTZ-Norm TL 6145-3101 | 02YS(ST)Y 1x2x0.4/1.0-120 VZN GR | 2.8 | 4 | 8 | 500 | coil | V45467-F 14-C 25-L6 |
| 1 x wire Ø 0.4 | FTZ-Norm TL 6145-3101, WS/BR | 02YS(ST)Y 1x2x0.4/1.0-120 VZN GR | 2.8 | 4 | 8 | 1500 | coil | V45467-F 14-C 25-L2 |
| 1 x wire Ø 0.4 | with braid | 02YS(ST)CY 1x2x0.4/1.0-120 VZN GR | 3.5 | 11 | 17 | 2000 | drum | V45467-F 14-C 65 |
| 1 x wire Ø 0.4 | FTZ-Norm TL 6145-3101, WS/GN | 02YS(ST)Y 1x2x0.4/1.0-120 VZN GR | 2.8 | 4 | 8 | 250 | cone | V45467-F 14-C 35 |
| 1 x wire Ø 0.4 | FTZ-Norm TL 6145-3101, WS/BL | 02YS(ST)Y 1x2x0.4/1.0-120 VZN GR | 2.8 | 4 | 8 | 250 | cone | V45467-F 14-C 55 |
| 1 x wire Ø 0.4 | FRNC | 02YS(ST)H 1x2x0.4/1.0 VZN GR FRNC | 2.8 | 4 | 8 | 250 | cone | V45467-F 14-C 6 |
| 2 x wire Ø 0.4 | | 02YS(ST)Y 2x2x0.4/1.0-120 GR PIMF | 6.2 | 10 | 41 | 2000 | drum | V45467-F 14-C 85 |
| 4 x wire Ø 0.4 | | 02YSY Y 4x2x0.4/1.0 VZN PIMF GR | 8.3 | 16 | 59 | 1000 | drum | V45467-F 14-C 75 |
| 2 x wire Ø 0.4 | UL-File E119100 | 06Y(ST)CCY 2x0.4/1.0-120 VS FR GR | 3.8 | 20 | 27 | 2000 | drum | V45467-F 14-N 5 |
| 8 x wire Ø 0.4 | FRNC | 09YSCH 8x2x0.4/1.0-120 (C) GR FRNC | 9.8 | 136 | 159 | 1000 | drum | L45467-F 214-C 6 |
| 8 x wire Ø 0.4 | UL SUBJ 444 TYPE CMR | 06YCY 8x2x0.4/1.0-120 (C) VS GR FR | 9.8 | 136 | 183 | 500 | drum | V45467-F 214-N 5 |
| 8 x wire Ø 0.4 | UL-File E119100 | 06Y 8x2x0.4/1.0-120 (C) VS 06YY CY 1x2x0.4/1.0-120 (C) VS GR FR | 11.3 | 156 | 219 | 1000 | drum | V45467-F 114-N 15 |
| 2 x wire Ø 0.4 | | 02YS(ST)CY 2x2x0.4/0.8-120 GR | 4.5 | 12 | 27 | 2000 | drum | V45467-F 114-C 5 |
| 2 x wire Ø 0.4 | | 02YS(ST)CY 2x2x0.4/0.8-120 GR | 4.5 | 12 | 27 | 3500 | drum | V45467-F 114-C 5-M3 |
| 4 x wire Ø 0.4 | | 02YS(ST)CY 4x2x0.4/0.8-120 GR | 6.5 | 33 | 58 | 1000 | drum | V45467-F 214-C 25 |
| 8 x wire Ø 0.4 | UL-Style 2835A | 02YS(ST)CY 8x2x0.4/0.8-120 GR | 6.9 | 47 | 73 | 1000 | drum | V45467-F 214-C 15 |
| 8 x wire Ø 0.4 | UL-Style 2835A | 02YS(ST)CY 8x2x0.4/0.8-120 GR | 6.9 | 47 | 73 | 2000 | drum | V45467-F 214-C 15-L8 |
| 8 x wire Ø 0.4 | UL-Style 2835A | 02YS(ST)CY 8x2x0.4/0.8-120 GR | 6.9 | 47 | 73 | 3000 | drum | V45467-F 214-C 15-M1 |
| 8 x wire Ø 0.4 | UL-Style 2835A | 02YS(ST)CY 8x2x0.4/0.8-120 GR | 6.9 | 47 | 73 | 4000 | drum | V45467-F 214-C 15-M3 |
| 1 x wire Ø 0.5 | FTZ-Norm TL 6145-3101 | 2Y(ST)Y 1x2x0.5/1.5 -120 VZN GR | 4.4 | 6 | 21 | 250 | ring | V45467-F 15-B 45 |
| 1 x wire Ø 0.5 | | 2YD(MS)Y 1x2x0.5/1.5 VZN WS | 4.7 | 14 | 34 | 250 | ring | V45467-F 1-B 15 |
| 8 x wire Ø 0.5 | | 09YS(ST)C2Y 8x2x0.5/1.1-120 VZN | 10.6 | 71 | 126 | 1000 | drum | V45467-F 115-C 6 |
| 2 x strand | UL SUBJ 444 TYPE CMR, CSA STAND. C22.2 NO 214-M90 | 06Y(ST)CY 2x2x0.5/1.2 (C) LI VS GRAU | 6.5 | 38 | 61 | 1000 | drum | V45467-F 114-N 5 |
| 1 x wire Ø 0.6 | FTZ-Norm TL 6145-3101 | 09YS(ST)CY 1x2x0.6/1.2-120 VZN GR | 5.7 | 32 | 49 | 1000 | drum | V45467-F 16-Y 5 |
| 2 x wire Ø 0.6 | FTZ-Norm TL 6145-3101 | 09YS(ST)CY 2x2x0.6/1.2-120 VZN GR | 5.7 | 32 | 49 | 1000 | drum | V45467-F 116-Y 5 |
| 2 x wire Ø 0.6 | FTZ-Norm TL 6145-3101 | 09YS(ST)CY 2x2x0.6/1.2-120 VZN GR | 5.7 | 32 | 49 | 250 | ring | V45467-F 116-Y 5-F5 |
| 2 x wire Ø 0.6 | FRNC | 09YS(ST)CH 2x2x0.6/1.2-120 VZN FRNC | 5.7 | 32 | 46 | 2000 | drum | L45467-F 116-C 16 |
| 4 x wire Ø 0.6 | UL SUBJ 444 | 06Y(ST)CY 4x2x0.6/1.2-120 FR GR VS | 7.7 | 53 | 88 | 1000 | drum | V45467-F 116-N 15 |
| 4 x wire Ø 0.6 | FRNC | 09YS(ST)CH 4x2x0.6/1.2-120 GR FRNC | 8.3 | 50 | 80 | 2000 | drum | L45467-F 116-C 6 |
| 8 x wire Ø 0.6 | UL SUBJ 444 TYPE CMR | 06Y(ST)CY 8x2x0.6/1.2-120 GR FR VS | 9.3 | 86 | 132 | 500 | drum | V45467-F 216-N 15 |
| 8 x wire Ø 0.6 | UL SUBJ 444 TYPE CMR | 06Y(ST)CCY 8x2x0.6/1.2-120 VS FR GR | 9.9 | 136 | 179 | 500 | drum | V45467-F 216-N 5 |
| 1 x wire Ø 0.8 | PCM cable | 02YCY 1x2x0.8/2.1 -120 VZN GE | 6.4 | 30 | 53 | 1000 | drum | V45467-F 18-C 5 |
| 1 x wire Ø 0.8 | PCM cable rodent protection | 02YCYB2Y 1x2x0.8/2.1-120 (2B0.1VZK) | 9.6 | 33 | 118 | 1000 | drum | V45467-F 18-C 6 |
| 6 x wire Ø 0.8 | PCM-cable, 16 m² grounding | 02YCY 6x2x0.8/2.1-120 LIY Y-J 1x1x16.0 GE | 23.7 | 335 | 645 | 500 | drum | V45467-F 118-W 5 |
| 1 x strand | FRNC | 02YSCH 1x2x1.1/2.5-120 LI SW FRNC | 7.8 | 45 | 78 | 2000 | drum | V45467-F 20-C 6 |

Balanced pair cables – 150 Ω

Balanced pair 150 Ω

Type: 02YCY 2x2x0.64/2.55-150

PIMF FR KF40

Order-No.: V45467-G 16-C 15



Application

Transmission of telecommunications signals up to 20 MHz. The cables are used in switches or digital systems. For fixed installation or moderate movement.

Construction

The construction varies in accordance with the electrical and mechanical requirements.

In order to ensure advanced crosstalk attenuation (e.g. in case of great level differences) cables with special shield constructions are used.

Constructions are available in accordance with DIN VDE, UL and CSA.

Temperature range

– 20 °C up to + 70 °C

| Conductor | Annotation | Type designation | Outer- Ø | Copper value | Net weight | Deliv. length | Pack- aging | Order-Number |
|-----------------|-----------------------------------|--------------------------------------|-------------|-----------------|---------------|------------------|----------------|---------------------|
| | | | mm | kg/km | kg/km | m | | |
| 4 x strand | IBM PART NO. 4716743, TYP 6 NP | 02YCY 2x2x0.48/1.86 LI PIMF | 8.6 | 28 | 74 | 500 | drum | V45467-G 14-C 5 |
| 2 x wire Ø 0.5 | FTZ-Norm TL 6145-3101 | 2YDD(MS)Y 1x2x0.5/2.2-150 VZN WS | 7.1 | 37 | 76 | 250 | ring | V45467-G 1-B 5 |
| 2 x wire Ø 0.5 | FRNC | 2YC(MS)CH 1x2x0.5/2.2-150 VZN FRNC | 7.6 | 41 | 77 | 1000 | drum | L45467-G 15-B 16 |
| 2 x wire Ø 0.5 | FTZ-Norm TL 6145-3101 | 2Y(ST)Y 1x2x0.5/2.2-150 VZN GR | 6.3 | 7 | 36 | 250 | ring | V45467-G 15-B 25 |
| 2 x wire Ø 0.5 | | 2Y(ST)Y 1x2x0.5/2.2-150 VZN GR | 6.3 | 7 | 38 | 1000 | drum | V45467-G 15-B 25-L7 |
| 2 x wire Ø 0.5 | | 2YC(MS)CY 1x2x0.5/2.2-150 VZN WS | 7.6 | 41 | 81 | 1000 | drum | V45467-G 15-B 35 |
| 2 x wire Ø 0.64 | cold-resistant to – 40°C | 02YS(ST)CY2Y 1x2x0.64/2.55-150 KF40 | 10.3 | 20 | 83 | 3000 | drum | V45467-G 16-C 46 |
| 2 x wire Ø 0.64 | | 02Y(ST)CH 1x2x0.64/2.55-150 FRNC | 7.6 | 20 | 52 | 1000 | drum | V45467-G 16-C136 |
| 4 x wire Ø 0.64 | IBM 4716748, UL-File E119100 | 02YCY 2x2x0.64/2.55-150 PIMF FR KF40 | 10.8 | 39 | 87 | 1000 | drum | V45467-G 16-C 15 |

Balanced pair cables, special constructions



Balanced pair 110 Ω

Type: 02YCH(L)2Y 1x2x1.6/3.1-110

LI NC SW

Order-No.: V45467-Y 23-C 16

Application

Transmission of telecommunications signals up to 20 MHz. The cables are used in switches or digital systems.

For fixed installation or moderate movement.

Construction

The construction varies in accordance with the electrical and mechanical requirements.

In order to ensure advanced crosstalk attenuation (e.g. in case of great level differences) cables with special shield constructions are used.

Constructions are available in accordance with DIN VDE, UL and CSA.

Temperature range

– 20 °C to + 70 °C

| Conductor | Annotation | Type designation | Outer- Ø | Copper value | Net weight | Deliv. length | Pack- aging | Order-Number |
|-----------------|--|--------------------------------------|-------------|-----------------|---------------|------------------|----------------|---------------------|
| | | | mm | kg/km | kg/km | m | | |
| 2 x strand | balanced pair 78 Ω, UL-Style 2092 | 2YCY 1x2x0.96/2.0-78 LI VZN | 6.1 | 36 | 56 | 2000 | drum | V45467-Y 19-B 15-L8 |
| 36 x wire Ø 0.4 | balanced pair 100 Ω, | 2Y(ST)CY 18x2x0.4/0.8-100 GR | 9.0 | 62 | 109 | 2000 | drum | V45467-Y 14-B 5 |
| 12 x wire Ø 0.4 | balanced pair 100 Ω, | 2Y(ST)CY 6x2x0.4/0.8-100 GR | 4.9 | 26 | 48 | 2000 | drum | V45467-Y 14-B 15 |
| 2 x strand | balanced pair 110 Ω, FRNC | 2YC(L)H 1x2x0.94/1.8-110 LI FRNC BL | 10.0 | 37 | 128 | 1000 | drum | V45467-Y 15-B 6 |
| 2 x strand | balanced pair 110 Ω, NC, laminated sheath | 02YCH(L)2Y 1x2x1.6/3.1-110 LI NC SW | 12.8 | 58 | 179 | 2000 | drum | V45467-Y 23-C 16 |
| 12 x wire Ø 0.4 | balanced pair 110 Ω, FR | 06Y(ST)YCY 6x2x0.4/0.8-110 BD VS FR | 8.5 | 38 | 83 | 1250 | drum | V45467-Y 114-N 5 |
| 36 x wire Ø 0.4 | balanced pair 110 Ω, FR | 06Y(ST)YCY 18x2x0.4/0.8-110 BD VS FR | 9.8 | 90 | 145 | 1000 | drum | V45467-Y 214-N 5 |
| 2 x strand | balanced pair 125 Ω, – 55 to + 125 °C | 06YC6Y 1x2x0.38/0.8-125 LI WS | 2.7 | 8 | 14 | 2000 | drum | L45467-F 15-N 7 |

Customer benefit by means of quality and flexibility

We place very high demands on the quality of our products. Stable manufacturing methods using innovative technologies and strict quality assurance give you and your customers the reliability for smooth operation. This is how we provide the basis for communication applications of today and tomorrow.

Flexibility is our strength.

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