

Twisted pair    Separator    Shielding braid    PVC jacket

Cable according to UL 758, style 1682 (wires) and style 2789 (assembly and insulators)

|                                             |                   |
|---------------------------------------------|-------------------|
| Rating temperature                          | -20 °C<br>+105 °C |
| Voltage rating<br>UL 2789                   | 30 V              |
| Max conductor<br>resistance (20°C)          | 233 Ω/km          |
| Min insulator<br>resistance (20°C)          | 1 MΩ/km           |
| Nominal differential<br>capacitance (1 kHz) | 110 pF/m          |
| Nominal differential<br>impedance (TDR)     | 85 Ω              |
| Propagation velocity                        | 55 %              |

|           |                                                              |
|-----------|--------------------------------------------------------------|
| Conductor | 7x Ø 0,13 mm stranded<br>tinned copper<br>(0,09 mm² / AWG28) |
| Insulator | PVC Ø 0,62 mm<br>(50 pairs : Ø 0,67 mm)                      |
| Shield    | Tinned copper braid<br>covering > 80 %                       |
| Jacket    | PVC                                                          |

| P/N            | Jacket color | Nr of pairs | Outside<br>diameter |
|----------------|--------------|-------------|---------------------|
|                |              |             | Nominal             |
| 60 90 005 6010 | beige        | 5           | 5,4                 |
| 60 90 010 6010 |              | 10          | 6,6                 |
| 60 90 013 6010 |              | 13          | 6,8                 |
| 60 90 018 6010 |              | 18          | 7,5                 |
| 60 90 025 6010 |              | 25          | 8,5                 |
| 60 90 034 6010 |              | 34          | 8,9                 |
| 60 90 050 6010 |              | 50          | 11,1                |

Cable marking =  AMW 2789 60°C 30V

|       |          |      |                               |          |      |                                                                                                                             |                                                                                         |                   |                      |
|-------|----------|------|-------------------------------|----------|------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------|----------------------|
|       |          |      |                               | Dat.     | Name | <br>All Dim. in mm<br>Orig. Size DIN A 4 | Shielded cable<br>with twisted pairs<br>(5 to 50 pairs) AWG 28/7<br>Roll length : 100 m | Maßstab/<br>Scale |                      |
|       |          |      | Detail.                       | 09/05/12 | SD   |                                                                                                                             |                                                                                         |                   |                      |
|       |          |      | Insp.                         | 09/05/12 | JMV  |                                                                                                                             |                                                                                         |                   |                      |
|       |          |      | Stand.                        |          |      |                                                                                                                             |                                                                                         |                   |                      |
| 36325 | 29/05/12 | BH   | HARTING EURL<br>F-95972 Paris |          |      |                                                                                                                             |      | TB 60 90 0XX 6010 | Blatt/ Page<br>1 / 2 |
| 36304 | 09/05/12 | SD   |                               |          |      |                                                                                                                             |                                                                                         |                   |                      |
| Mod.  | Dat.     | Name |                               |          |      |                                                                                                                             | Sub.                                                                                    |                   |                      |

E

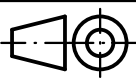
D

C

B

A

|                |          |                         |    |    |    |    |    |    |    |    |    |    |  |
|----------------|----------|-------------------------|----|----|----|----|----|----|----|----|----|----|--|
| 4              |          | 3                       |    |    |    | 2  |    |    |    | 1  |    |    |  |
| Nr of pairs: X |          | 5                       | 10 | 13 | 14 | 18 | 20 | 25 | 34 | 40 | 48 | 50 |  |
| 1st wire       | 2nd wire | Pairs order from centre |    |    |    |    |    |    |    |    |    |    |  |
| pink           | black    | 1                       | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |  |
| pink           | brown    | 2                       | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |  |
| pink           | red      | 3                       |    | 3  | 3  | 3  | 3  | 3  |    |    | 3  | 3  |  |
| pink           | orange   | 4                       |    | 4  | 4  | 4  | 4  |    | 4  |    | 4  | 4  |  |
| pink           | yellow   | 5                       |    |    |    | 5  | 5  |    | 5  |    | 5  |    |  |
| pink           | green    |                         |    |    |    | 6  | 6  |    | 6  |    | 6  |    |  |
| pink           | blue     |                         |    |    |    |    | 7  |    |    |    | 7  |    |  |
| white          | black    |                         | 3  | 5  | 5  | 7  | 8  | 4  | 7  | 3  | 8  | 5  |  |
| white          | brown    |                         | 4  | 6  | 6  | 8  | 9  | 5  | 8  | 4  | 9  | 6  |  |
| white          | red      |                         | 5  | 7  | 7  | 9  | 10 | 6  | 9  | 5  | 10 | 7  |  |
| white          | orange   |                         | 6  | 8  | 8  | 10 | 11 | 7  | 10 | 6  | 11 | 8  |  |
| white          | yellow   |                         | 7  | 9  | 9  | 11 | 12 | 8  | 11 | 7  | 12 | 9  |  |
| white          | green    |                         | 8  | 10 | 10 | 12 | 13 | 9  | 12 | 8  | 13 | 10 |  |
| white          | blue     |                         | 9  | 11 | 11 | 13 | 14 | 10 | 13 | 9  | 14 | 11 |  |
| white          | purple   |                         | 10 | 12 | 12 | 14 | 15 | 11 | 14 |    | 15 | 12 |  |
| white          | grey     |                         |    | 13 | 13 | 15 | 16 |    | 15 |    | 16 | 13 |  |
| white          | pink     |                         |    |    | 14 | 16 | 17 |    | 16 |    | 17 | 14 |  |
| grey           | black    |                         |    |    |    | 17 | 18 | 12 | 17 | 10 | 18 | 15 |  |
| grey           | brown    |                         |    |    |    | 18 | 19 | 13 | 18 | 11 | 19 | 16 |  |
| grey           | red      |                         |    |    |    |    | 20 | 14 | 19 | 12 | 20 | 17 |  |
| grey           | orange   |                         |    |    |    |    |    | 15 | 20 | 13 | 21 | 18 |  |
| grey           | yellow   |                         |    |    |    |    |    | 16 | 21 | 14 | 22 | 19 |  |
| grey           | green    |                         |    |    |    |    |    | 17 | 22 | 15 | 23 | 20 |  |
| grey           | blue     |                         |    |    |    |    |    | 18 | 23 | 16 | 24 | 21 |  |
| grey           | purple   |                         |    |    |    |    |    | 19 | 24 | 17 | 25 | 22 |  |
| grey           | white    |                         |    |    |    |    |    | 20 |    | 18 |    |    |  |
| grey           | pink     |                         |    |    |    |    |    | 21 | 25 | 19 | 26 | 23 |  |
| purple         | black    |                         |    |    |    |    |    | 22 | 26 | 20 | 27 | 24 |  |
| purple         | brown    |                         |    |    |    |    |    | 24 | 27 | 21 | 28 | 25 |  |
| purple         | red      |                         |    |    |    |    |    | 23 | 28 | 22 | 29 | 26 |  |
| purple         | orange   |                         |    |    |    |    |    | 25 | 29 |    | 30 | 27 |  |
| purple         | yellow   |                         |    |    |    |    |    |    | 30 |    | 31 | 28 |  |
| purple         | green    |                         |    |    |    |    |    |    | 31 |    | 32 | 29 |  |
| purple         | blue     |                         |    |    |    |    |    |    | 32 |    | 33 |    |  |
| purple         | pink     |                         |    |    |    |    |    |    | 33 |    | 34 |    |  |
| blue           | black    |                         |    |    |    |    |    |    | 34 | 23 | 35 | 30 |  |
| blue           | brown    |                         |    |    |    |    |    |    |    | 24 | 36 | 31 |  |
| blue           | red      |                         |    |    |    |    |    |    |    | 25 | 37 | 32 |  |
| blue           | orange   |                         |    |    |    |    |    |    |    | 26 | 38 | 33 |  |
| blue           | yellow   |                         |    |    |    |    |    |    |    | 27 | 39 | 34 |  |
| blue           | green    |                         |    |    |    |    |    |    |    | 29 | 40 | 35 |  |
| blue           | purple   |                         |    |    |    |    |    |    |    | 29 |    | 36 |  |
| blue           | pink     |                         |    |    |    |    |    |    |    | 30 |    | 37 |  |
| green          | black    |                         |    |    |    |    |    |    |    | 31 | 41 | 38 |  |
| green          | brown    |                         |    |    |    |    |    |    |    | 32 | 42 | 39 |  |
| green          | red      |                         |    |    |    |    |    |    |    | 33 | 43 | 40 |  |
| green          | orange   |                         |    |    |    |    |    |    |    | 34 | 44 | 41 |  |
| green          | yellow   |                         |    |    |    |    |    |    |    | 35 | 45 | 42 |  |
| green          | purple   |                         |    |    |    |    |    |    |    | 36 |    |    |  |
| green          | pink     |                         |    |    |    |    |    |    |    | 37 |    | 43 |  |
| yellow         | black    |                         |    |    |    |    |    |    |    | 38 | 46 | 44 |  |
| yellow         | brown    |                         |    |    |    |    |    |    |    | 39 | 47 | 45 |  |
| yellow         | red      |                         |    |    |    |    |    |    |    | 40 | 48 | 46 |  |
| yellow         | orange   |                         |    |    |    |    |    |    |    |    |    | 47 |  |
| yellow         | pink     |                         |    |    |    |    |    |    |    |    |    | 48 |  |
| orange         | black    |                         |    |    |    |    |    |    |    |    |    | 49 |  |
| orange         | brown    |                         |    |    |    |    |    |    |    |    |    | 50 |  |

|         |          |      |                               |  |      |  |                                                                                                                             |                                                                                         |                      |
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| Insp.   |          |      | 09/05/12                      |  | JMV  |  |                                                                                                                             |                                                                                         |                      |
| Stand.  |          |      |                               |  |      |  |                                                                                                                             |                                                                                         |                      |
| 36325   | 29/05/12 | BH   | HARTING EURL<br>F-95972 Paris |  |      |  |                                          | TB 60 90 OXX 6010                                                                       | Blatt/ Page<br>2 / 2 |
| 36304   | 09/05/12 | SD   |                               |  |      |  |                                                                                                                             |                                                                                         |                      |
| Mod.    | Dat.     | Name |                               |  |      |  |                                                                                                                             |                                                                                         |                      |